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OPERATION AND MAINTENANCE MANUAL
MODEL P-5114B
PORTABLE MAGNETIC TAPE
RECORDER/REPRODUCER SYSTEM



FAIRCHILD

WINSTON RESEARCH
CORPORATION
A SUBSIDIARY OF FAIRCHILD CAMERA
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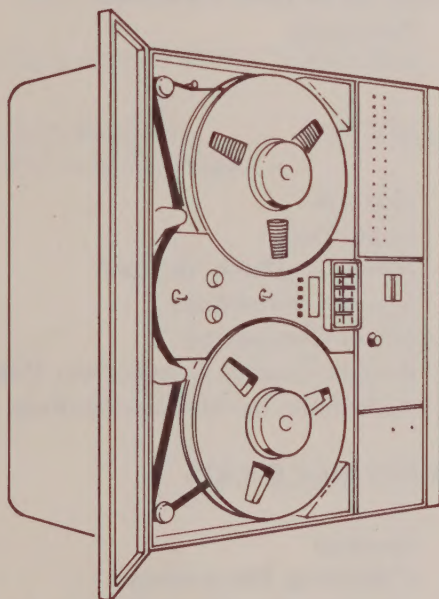


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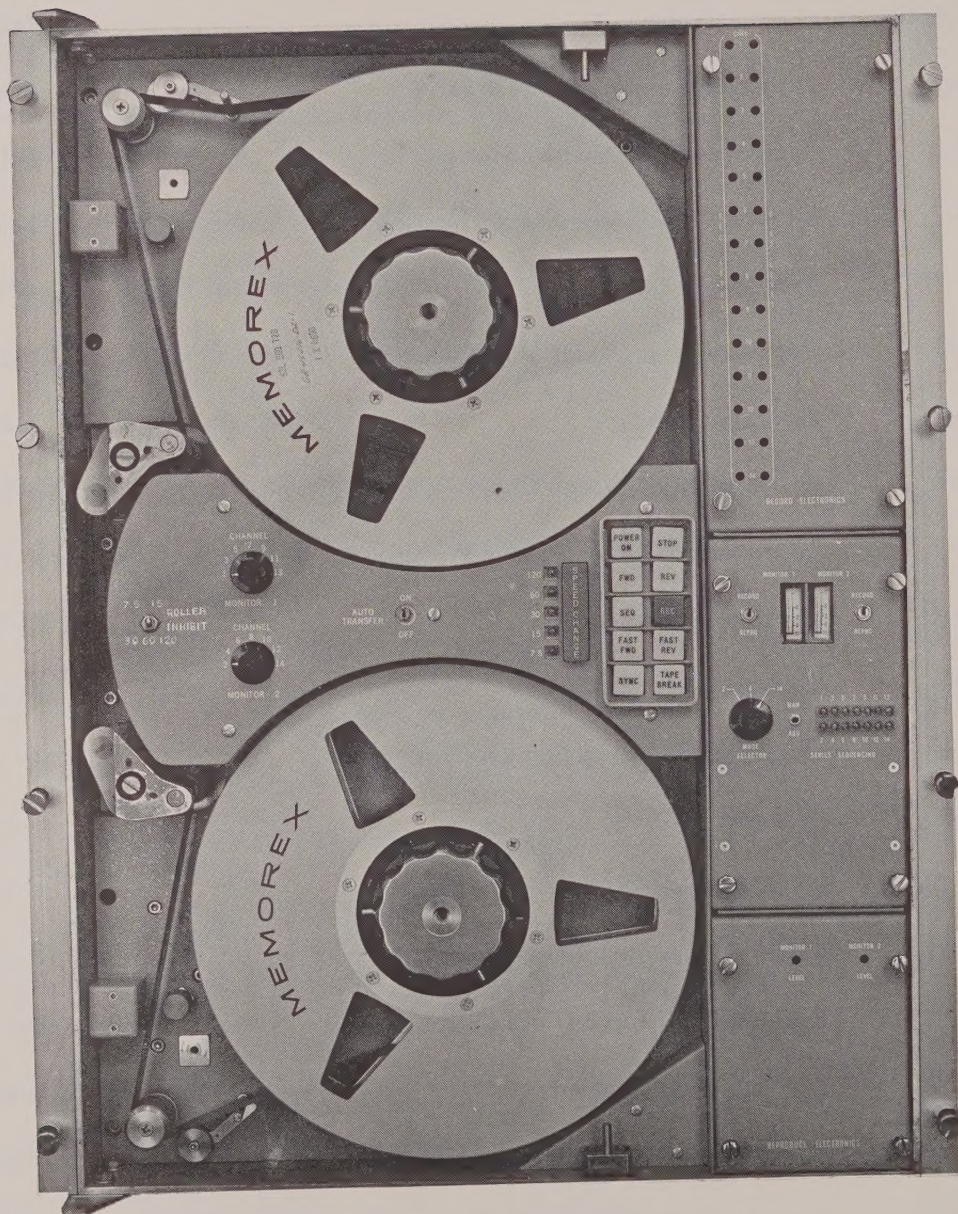


FIGURE 1-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER SYSTEM

SECTION 1

GENERAL DESCRIPTION

1.1 INTRODUCTION

This manual consists of operation and maintenance instructions for the P-5114B Portable Magnetic Tape Recorder/Reproducer System, which is part of the basic P-5000 series of recorders. A P-5114B recorder is illustrated in Figure 1-1.

1.2 GENERAL DESCRIPTION (Figures 1-1 and 1-2)

In the Winston Model P-5000, compactness has been combined with laboratory-quality performance to produce an advanced instrumentation tape recorder/reproducer in a portable package. The P-5114B uses 10-1/2-inch NAB reels and operates at tape speeds of 7.5, 15, 30, 60, and 120 ips, yet the complete 14-track record/reproduce system occupies only 2.5 cubic feet of space and weighs 150 pounds. The transport handles 1-inch wide tape for 14-track operation, and has full bi-directional capability. Three standard bandwidths are provided with automatic equalization of the reproduce electronics for the tape speed and bandwidth selected: 400 cps to 1.2 mc; 400 cps to 1.5 mc; and 800 cps to 2.0 mc.

Welded encapsulated module and multilayer printed circuit card techniques, which are standard production procedures at Winston, are utilized to enhance the reliability and maintainability of the P-5114B. All modules and circuit cards are plug-in units which mate with a connector or a motherboard (printed circuit matrix) for easy replacement. Thus, replacement of a faulty card or other major component from an available stock of spares will restore the equipment to operational status. In addition, the printed circuit cards may be repaired by any trained technician, using conventional tools, to restore the equipment to operational status. The motherboard or multilayer printed matrix method is used for power distribution, for mounting modular units, and for input/output connectors. This configuration drastically reduces the space required for interwiring and, since wiring is completely defined by photomasters, reliability and reproducibility are assured. Spare card and wire jumper provisions provide for simple plug-in functional changes in the system.

Removal of a cover plate, or opening a hinged door, provides ready access to any circuit card or major component. Removal of a single card or module does not require removal of any major component for access. Extenders are available on all cards to enable troubleshooting or maintenance adjustment while the equipment is operating.

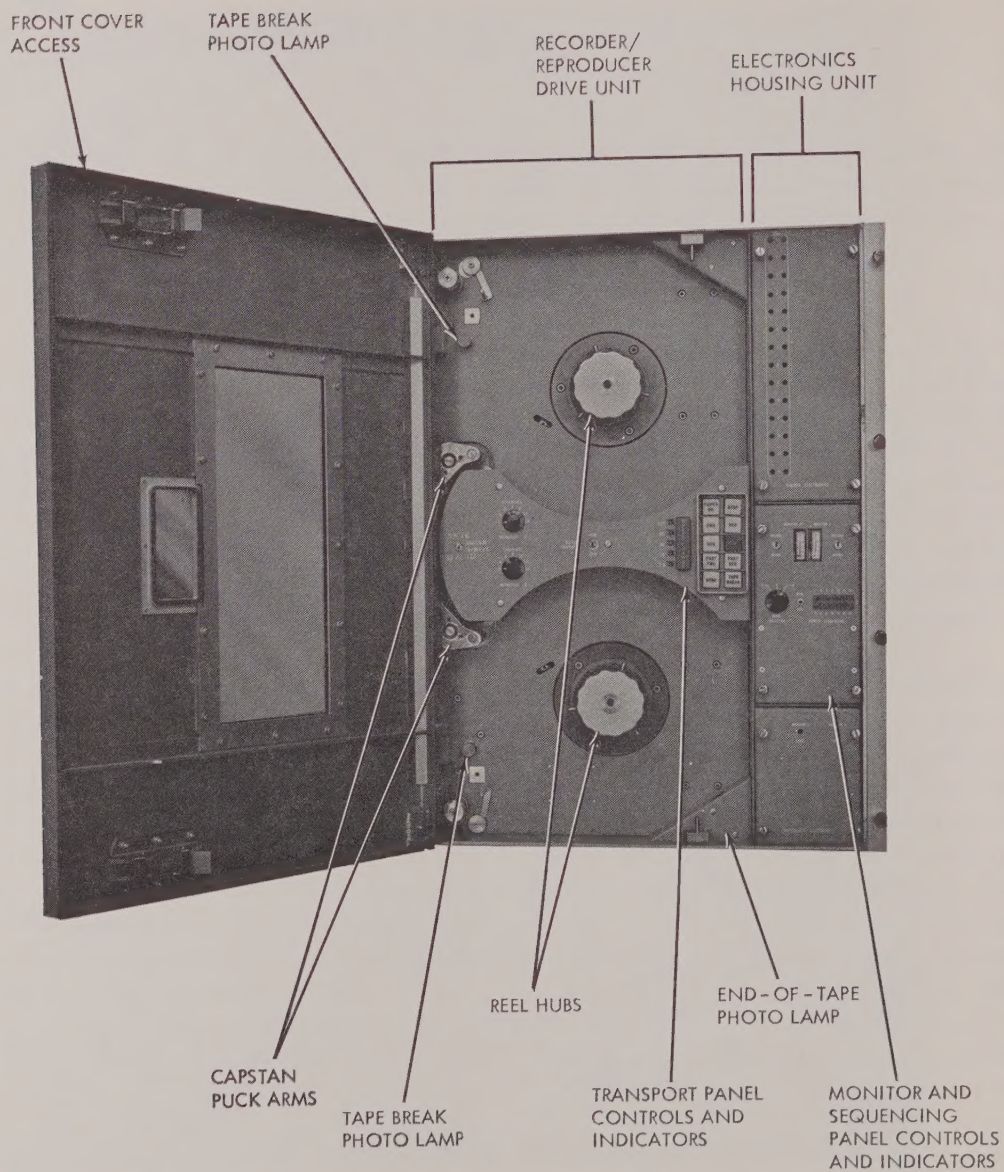


FIGURE 1-2A. MAJOR ASSEMBLY LOCATION (FRONT)

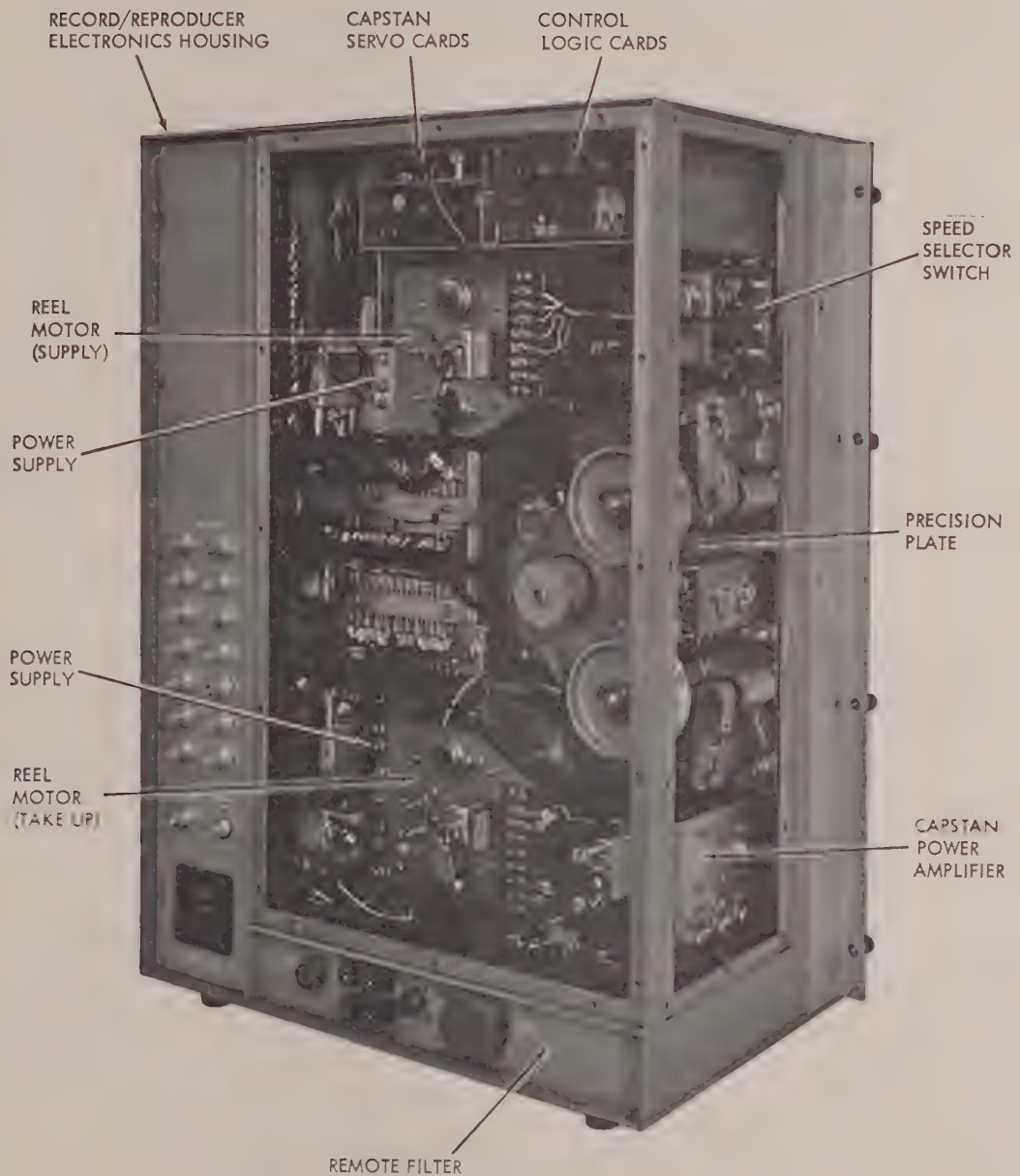


FIGURE 1-2B. MAJOR ASSEMBLY LOCATION (REAR)

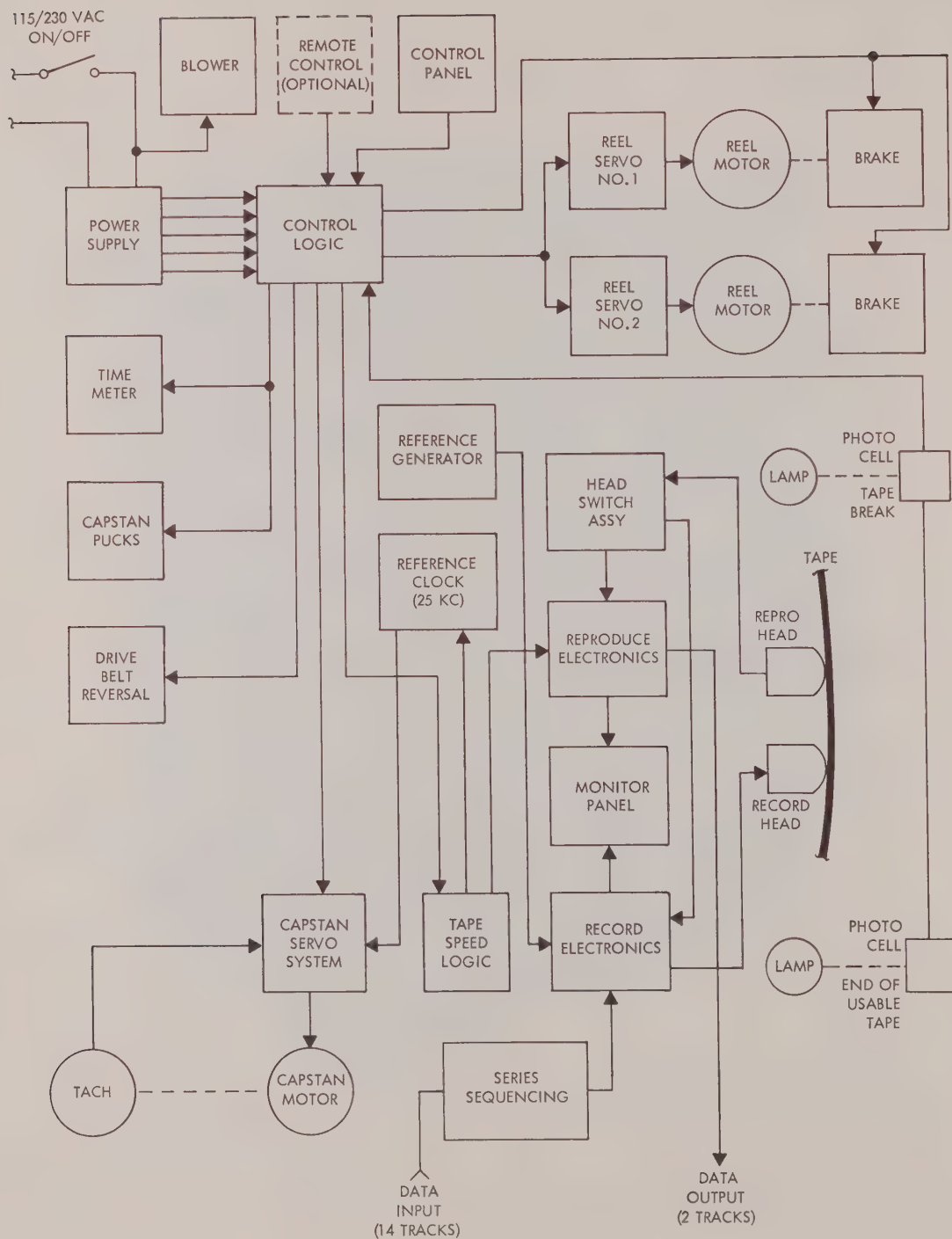


FIGURE 1-3. P-5114B SYSTEM BLOCK DIAGRAM

1.3 TAPE TRANSPORT DRIVE

All mechanical components of the tape transport system are mounted on a precision machined casting which serves as a stable reference for mounting critical components associated with guiding and driving the tape over the heads. It holds the accumulation of tolerances to a minimum and ensures proper longitudinal tape guiding relative to the record and reproduce heads. In conjunction with this, precision self-centering reel hubs are used which provide positive locking with no backlash and limit wobble eccentricity. To maintain minimum tape skew, all tape driving and guiding components are manufactured to close tolerances. Rotating parts are concentric and perpendicular to the mounting surface of the precision plate within micro-inches. This ensures that the parallel axes and run-out tolerances of the capstan and guide rollers are also within micro-inches, and that the rollers do not distort the tape path established by the guides.

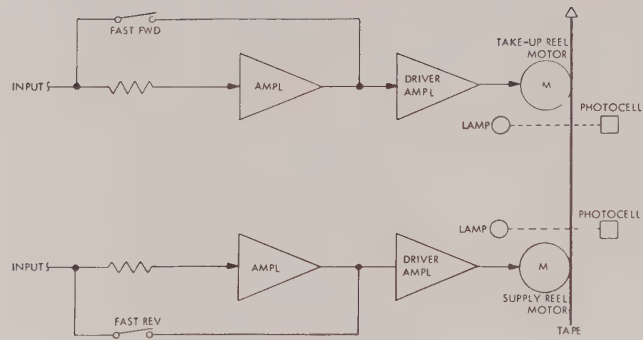
The capstan servo system is utilized to ensure constant tape speed ($\pm 0.3\%$ of nominal selected tape speed) with minimum wow and flutter. Dynamic braking, coupled with the closed loop positive drive used in the reel and capstan servo systems, ensures 100% tape transport control at all times. A block diagram of the P-5114B is illustrated in Figure 1-3.

1.3.1 Reel Drive (Figure 1-4)

The tape reels are driven by two printed circuit, dc motors controlled by solid-state electronics to provide tape tension outside the capstan control area. A phototransistor and light source are utilized to sense the amount of tape remaining on the payout (supply) reel and interrupt power to the transport drive circuit before the tape runs completely off the reel. Another phototransistor and light source (tape break sensor) are arranged to remove transport drive power at any time a tape is not threaded between the reels. It is not possible to operate the P-5114B without a tape threaded into the tape transport system unless the tape sensors are masked to isolate the activating light source.

1.3.2 Capstan Servo Drive (Figure 1-5)

The system uses a single motor dual-drive capstan arrangement with associated servo electronics to maintain constant tape speed. In the capstan area, tape tension is maintained by a differential in angular velocities of the capstan shafts. A trough guide on the puck arms prevents tape skew and side motion past the heads. An electrostatic tachometer, driven by the capstan motor, provides an input signal to an electronic servo control system. To maintain absolute tape speed, the electronic capstan control servo is phase locked to a precision oscillator. The P-5114B capstan drive system is similar to that used in a wideband laboratory recorder/reproducer. It normally operates under the condition in which the regulated, closed-loop tape tension over the heads is 500% greater than the tension of the tape to the reels. Thus, excellent isolation of any tape speed perturbations (external to the precision guiding area) is obtained.



FUNCTIONAL BLOCK DIAGRAM OF REEL SERVO CONTROL

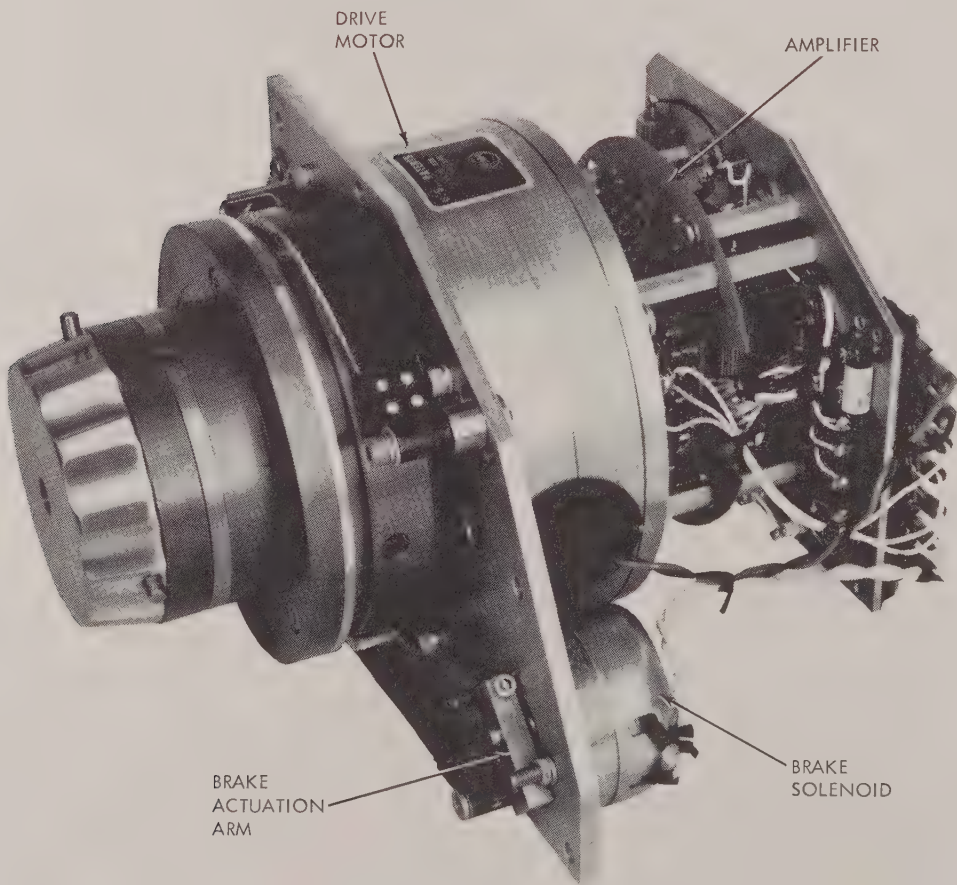
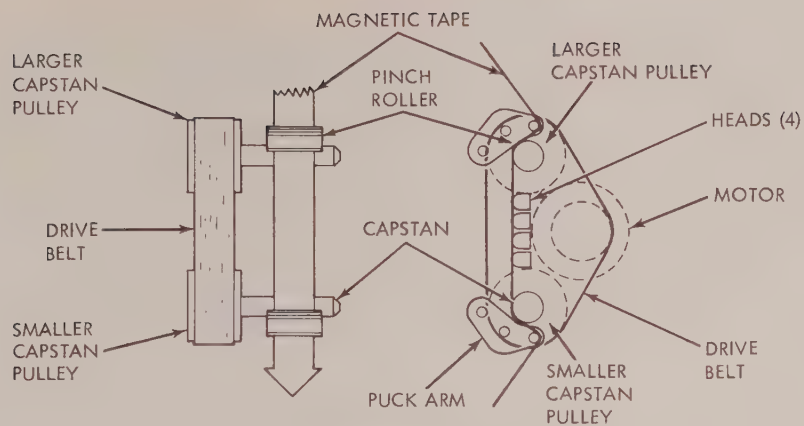


FIGURE 1-4. REEL DRIVE MOTOR



FUNCTIONAL DIAGRAM OF CAPSTAN DRIVE

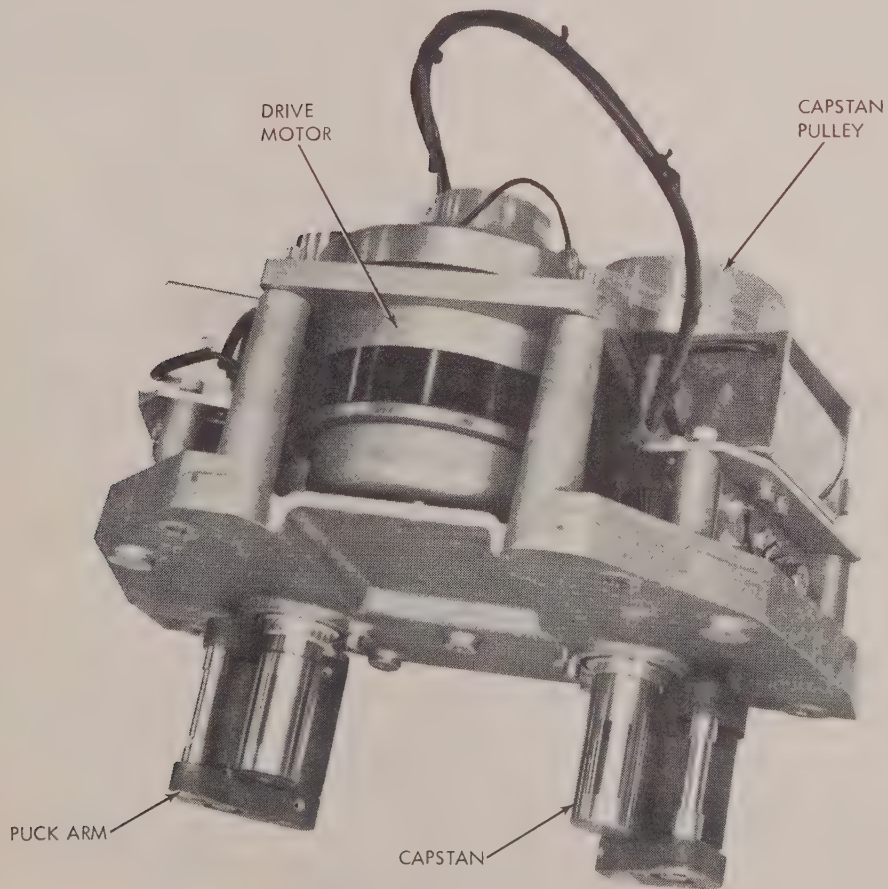


FIGURE 1-5. CAPSTAN DRIVE ASSEMBLY

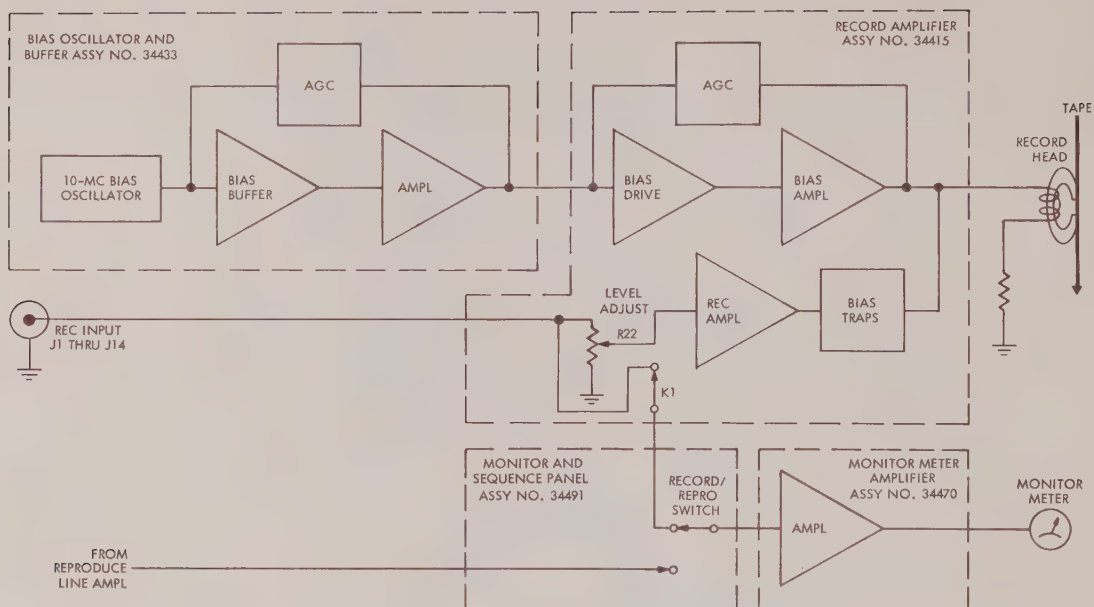


FIGURE 1-6. FUNCTIONAL BLOCK DIAGRAM OF RECORD ELECTRONICS, ONE TRACK

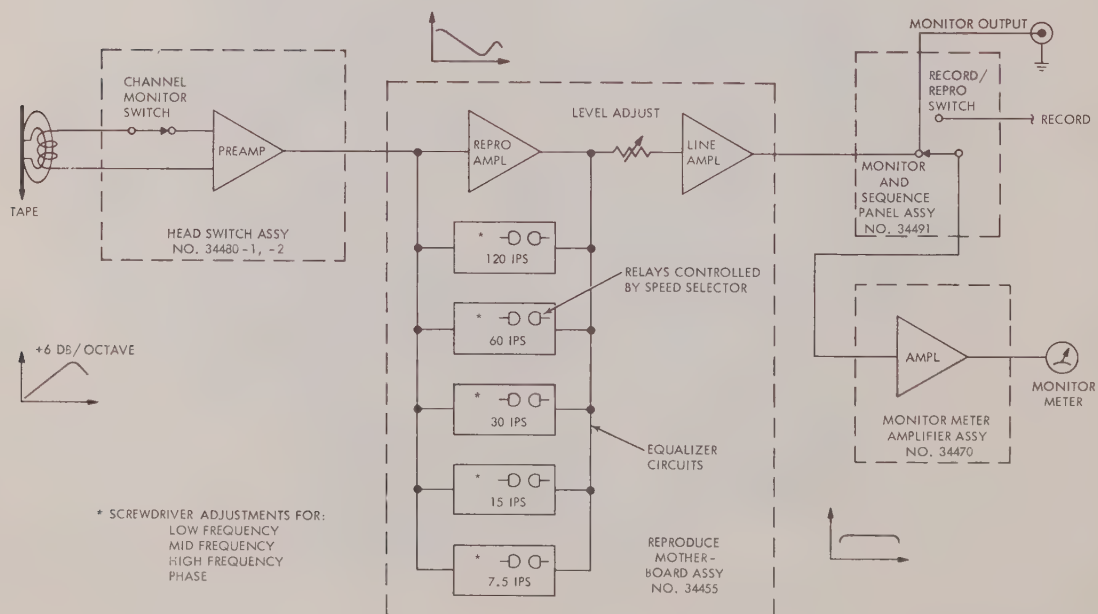


FIGURE 1-7. REPRODUCE ELECTRONICS BLOCK DIAGRAM

1.3.3 Flutter Reduction Capability

The maximum capability of the Winston low time displacement error (TDE) system may be realized by recording on the portable P-5114B in the field, and later reproducing these tapes on a Winston laboratory recorder/reproducer. The P-5114B has provision for a control track signal, 100 kc at 60 ips, or multiples thereof proportional to tape speed, which is simultaneously recorded on a separate track from the data signal. The tone can be used to compensate for wow and flutter and resultant time displacement errors when the tape is played back on a Winston laboratory reproducer. Under these conditions, wow and flutter can be reduced to approximately 0.25% peak to peak from dc to 10 kc at 60 ips; and absolute time displacement error can be held to ± 0.5 microseconds, referenced to the control tone at 60 ips.

1.4 RECORD/REPRODUCE ELECTRONICS

The record/reproduce electronics are composed either of welded, encapsulated modules or printed circuit cards for reliability, and immunity to the effects of adverse environmental conditions. The plug-in modules are mounted on a reproduce matrix (mother-board) and are conveniently accessible for adjustment to optimum performance levels.

1.4.1 Record Electronics (Figure 1-6)

Conventional recording techniques are used to record analog data signals at frequencies up to 2 mc at 120 ips. As shown in the block diagram, the input data is amplified and superimposed on a high frequency bias (linearly mixed) to drive the record head with a current proportional to the data input.

To compensate for high frequency head losses, a small amount of pre-emphasis is used at the high end of the passband. To minimize the effects of the hysteresis non-linearity of the magnetic tape, the data signal is superimposed on a 10-mc, high-frequency bias signal. This causes the data signal to be recorded on the linear portion of the tape magnetization curve.

1.4.2 Reproduce Electronics (Figure 1-7)

As shown in the block diagram, recorded data is picked up by the reproduce head, pre-amplified, equalized, and amplified to provide a usable output signal. The theoretical reproduce head output voltage is proportional to the rate of change of flux sensed in the magnetic tape, and increases at 6 db/octave up to the point where the recorded wavelength approaches twice the width of the head gap; after which the response rolls off at approximately 12 db/octave. To equalize the system frequency response, the response of the reproduce electronics is adjusted by equalizers to the inverse of the head response as shown in the block diagram. The frequency response is 800 cps to 2.0 mc, ± 3 db at 120 ips.

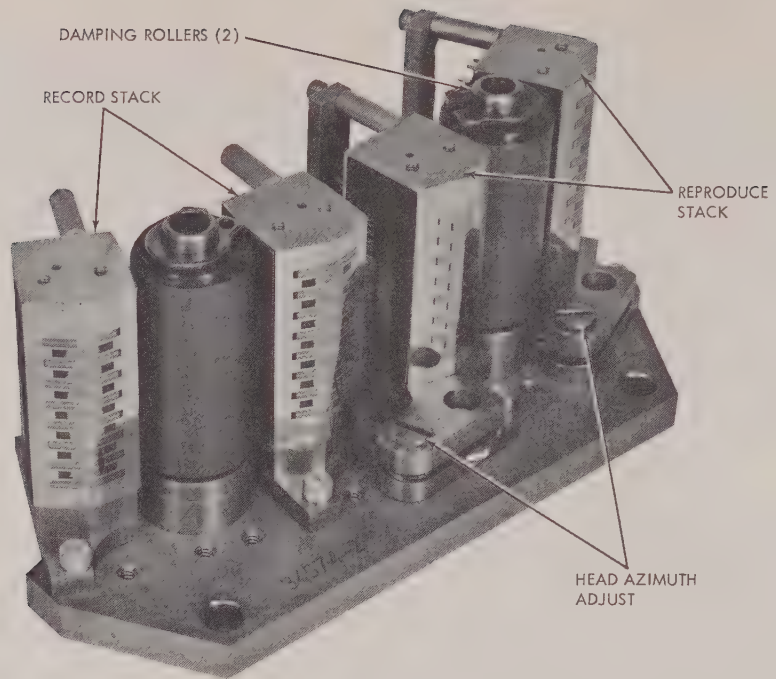


FIGURE 1-8. TYPICAL 14-TRACK IRIG HEAD ASSEMBLY

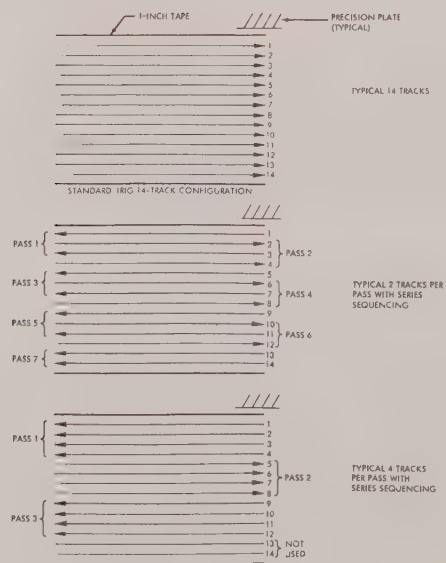


FIGURE 1-9. TYPICAL P-5114B TRACK CONFIGURATIONS

1.5 RECORD/REPRODUCE HEADS (Figure 1-8)

Standard magnetic heads are designed to provide the following record/reproduce densities: (1) up to 10,000 cps per linear inch of magnetic tape which yields a frequency range of 400 cps to 1.2 mc at a tape speed of 120 ips, (2) up to 12,550 cps per inch for 400 cps to 1.5 mc at 120 ips, and (3) 17,000 cps per inch for 800 cps to 2.0 mc at 120 ips. Heads are available on special order to suit many specific recording and track configuration requirements.

Standard head stacks follow an interleaved pattern in accordance with intermediate range instrumentation group (IRIG) practice, with two head stacks used for recording and two head stacks used for reproducing. The interleaved track spacing is 0.070 inch, center-line to centerline, and the effective track width is 0.050 inch.

In the standard head configuration, up to four head stacks mount on a precision sub-plate which in turn mounts on the transport precision plate. The individual head stacks are prealigned on the sub-plate at the factory and can be installed on the transport in the field with a minimum of effort and without any special tools or optical aligning equipment. Heads are screwdriver adjustable for precise azimuth alignment (within ± 0.1 minute of angle).

1.5.1 Track Configuration (Figure 1-9)

The P-5114B is a 14-track direct record and a 2-track direct reproduce system using 1-inch wide tape on 10-1/2-inch NAB reels. A sequencing panel provides for recording 4, 7, or 14 tracks per pass and for reproducing any selected 2 tracks. Series sequencing permits three uninterrupted passes of 4 tracks each, two passes of 7 tracks each, or one pass of 14 tracks in the record mode.

1.6 CONTROL LOGIC

A complete control logic system, which includes mechanical and electronic switches and relays, ensures proper selection of the various operational modes in the P-5114B. The control logic circuit responds to commands from back-lighted pushbutton switches on the control panel and from tape and motion sensors.

Selection of a particular mode of operation by means of the pushbutton controls causes the control logic to perform a series of automatic functions. Various equalizer circuits, to maintain optimum frequency and phase response for the selected speed, are switched into the reproduce circuit. The proper count-down circuits, corresponding to selected speed, are inserted in the capstan servo control circuit; the correct power is applied to drive motors, etc.

Provision is made for plugging in a remote control unit (optional) from which the operating modes of the P-5114B may be controlled.

1.7 MONITOR FUNCTION

Monitoring of the various signal levels is an important function in instrumentation-type recorder/reproducers. Therefore, Winston has made available a unit which provides facilities for monitoring record signal input and reproduce signal output (see Figure 1-2A). Two rotary switches are provided for selecting the two tape tracks to be monitored and two toggle switches provide selection of monitor mode, record or reproduce. The input signal from the direct record amplifier or the reproduce line amplifier is applied to a monitor meter amplifier. The value of this input is converted into an equivalent dc voltage which can be read on a dc milliammeter calibrated in db.

1.8 SERIES SEQUENCE CONTROLS

A three-position rotary SELECTOR MODE switch is provided just below the monitor meters to select the number of tracks to be recorded on each pass during series sequence mode of operation. Either 4 or 7 tracks may be automatically recorded on each pass in alternating directions until the tape is filled with data, or one pass, in which all 14 tracks are recorded simultaneously, may be selected. The transport stops automatically when all programmed passes have been completed. Indicator lights (1 through 14) come on to indicate which tracks are being recorded during any pass. A pushbutton, MAN ADV (manual advance), switch permits manual stepping of the sequencing to the desired tracks.

1.9 PACKAGING (Figure 1-10)

The P-5114B is available in a portable case or in a rack mounting configuration. In both configurations, the basic case is constructed of sheet metal, providing a lightweight but rugged enclosure. All doors, panels, and access covers are suitably formed for rigidity and are provided (where required) with RFI gasketing. Electronic modules, printed circuit cards, and all major functional components are directly interchangeable between the various configurations.

1.9.1 Portable Configuration

For portable use, the P-5114B is fitted with a convenient carrying case with two carrying handles on the ends. Feet are provided on the bottom for table-top operation. The case door protects the tape transport from dust, dirt, and adverse environmental effects. To allow operation of the transport with the door closed, a plexiglass window is provided for observation of the transport reels and indicators. An opening in the door provides access to the controls. All input/output connections are available at BNC-type connectors at the rear of the case. Case dimensions are 11 inches deep, 17-5/8 inches wide, and 24-1/2 inches long.

1.9.2 Rack Mounted Configuration

For 19-inch rack mounting applications, adapters are installed on the P-5114B case frame and a mounting flange with mounting holes is provided for securing the unit to the rack. All other functional data for this unit is identical with that for the portable unit.

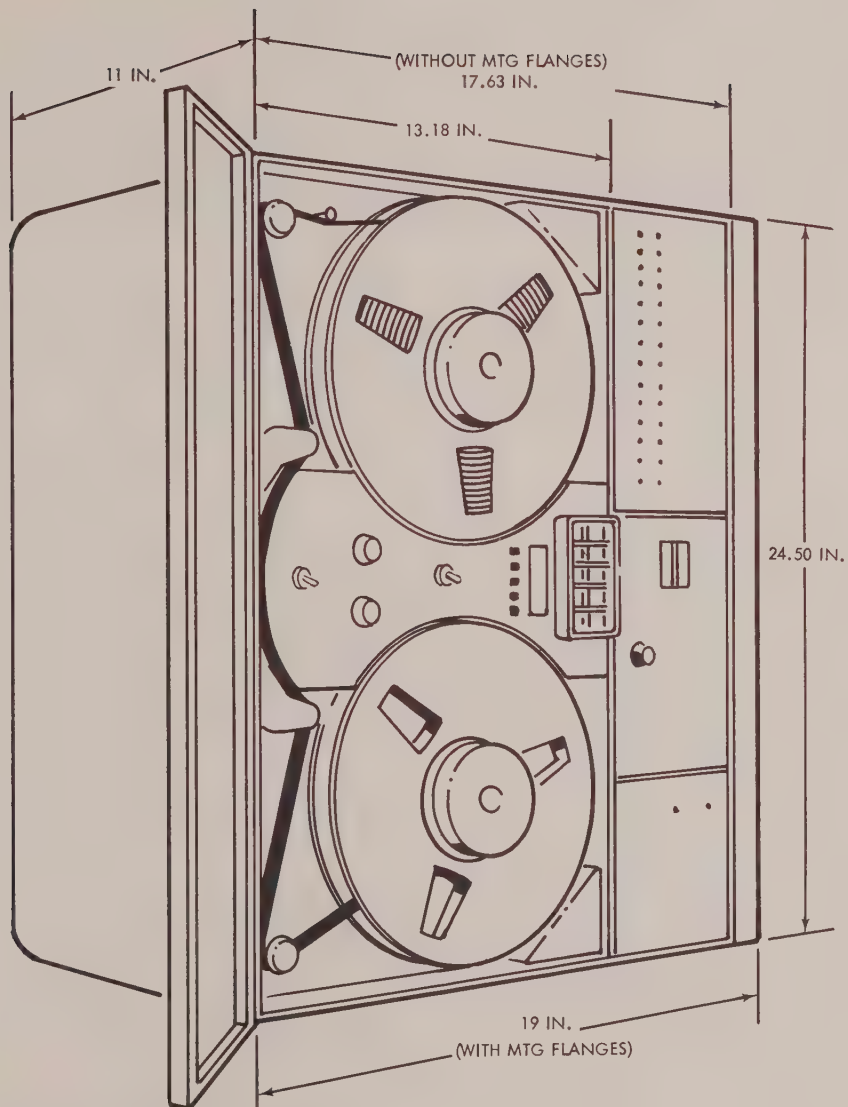


FIGURE 1-10. STANDARD P-5114B OUTLINE DIMENSIONS

SECTION 2

INSTALLATION

2.1 GENERAL

This section provides information necessary for unpacking and mounting the P-5115B Portable Magnetic Tape Recorder/Reproducer System, fabricating the cables required for operation, and making the power, signal and remote control connections.

NOTE

Because of the weight of the equipment, it is advisable to have two men available to remove the unit from the shipping container.

2.2 UNPACKING

As with all electronic equipment, use care when removing the P-5114B from its shipping container (Figure 2-1). Keep the container upright as marked. Open the container and remove the four polyurethane corner pads. Carefully open the cardboard intercontainer and remove the four inner corner pads. Remove the P-5114B and inspect it for any possible damage incurred during shipment. Report any damaged equipment to the proper authorities. Save all the packing materials, including the shipping container, for use if the P-5114B is to be reshipped.

2.3 MOUNTING (RACK VERSION)

The rack version of the P-5114B is designed to be mounted in a standard 19-inch EIA rack (Figure 2-2). The installation should be planned carefully, allowing for air flow into the rear and out of the top. Captive fasteners with 10-24 threads secure the rack-mounting angles to the case. Secure the unit to the rack by tightening the eight captive 10-24 screws to the P-5114B and adapters. Two men should install the P-5114B in the rack.

2.4 SIGNAL CONNECTIONS

All input (record) and output (reproduce) signal connections are made through UG909/U BNC-type connectors at the rear of the system (Figure 2-2). Fabricate input and output signal cables as shown in Figure 2-3. The output (monitor) cables should not be longer than 100 feet and should be terminated with 91 ohms for correct impedance match.

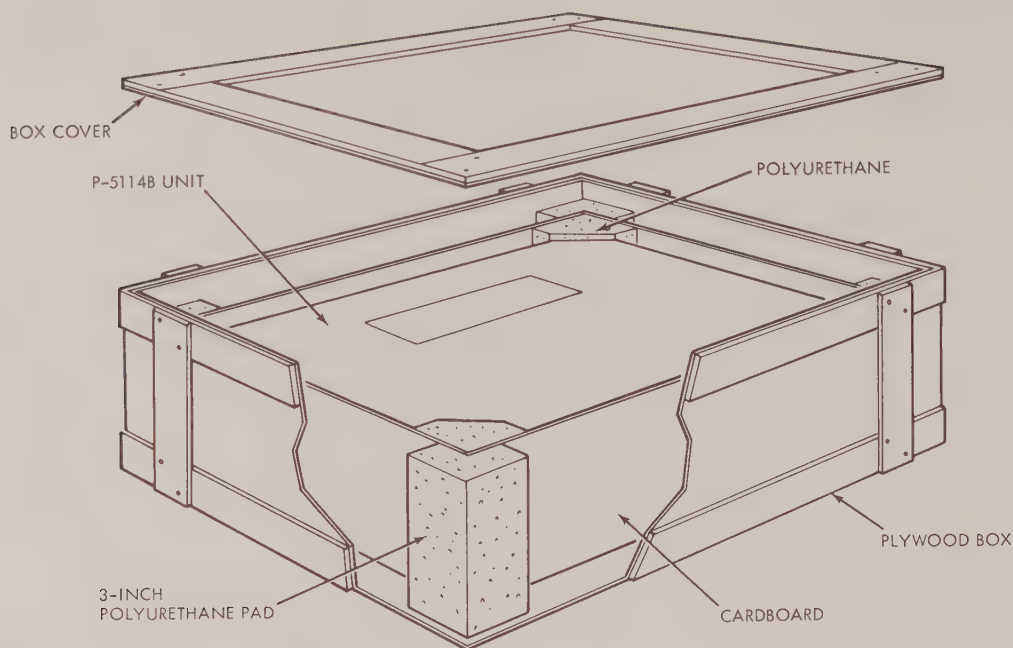


FIGURE 2-1. TYPICAL PACKING METHOD

2.5 POWER CONNECTION

As shown in Figure 2-3, the power cable is a three-wire arrangement having the third wire in the cable grounded at the primary source and to the case of the P-5114B of the power input receptacle. The P-5114B requires approximately 400 watts of power. If the standard Winston power cord is not used, the power lines should be 18 gauge wire or larger. The power input receptacle is located at the rear of the system as shown in Figure 2-4.

CAUTION

Make certain that the 230/115 volt line switch is in the desired position before applying power. This switch is located just above the power connector, and behind the rear cover. The recorder is shipped with the switch in the normal 115-volt position.

2.6 REMOTE CONTROL CONNECTIONS (OPTIONAL)

The standard Winston remote cable may be fabricated, as shown in Figure 2-3, for use between the remote control receptacle on the rear of the P-5114B (Figure 2-4) and the receptacle on the remote control unit.

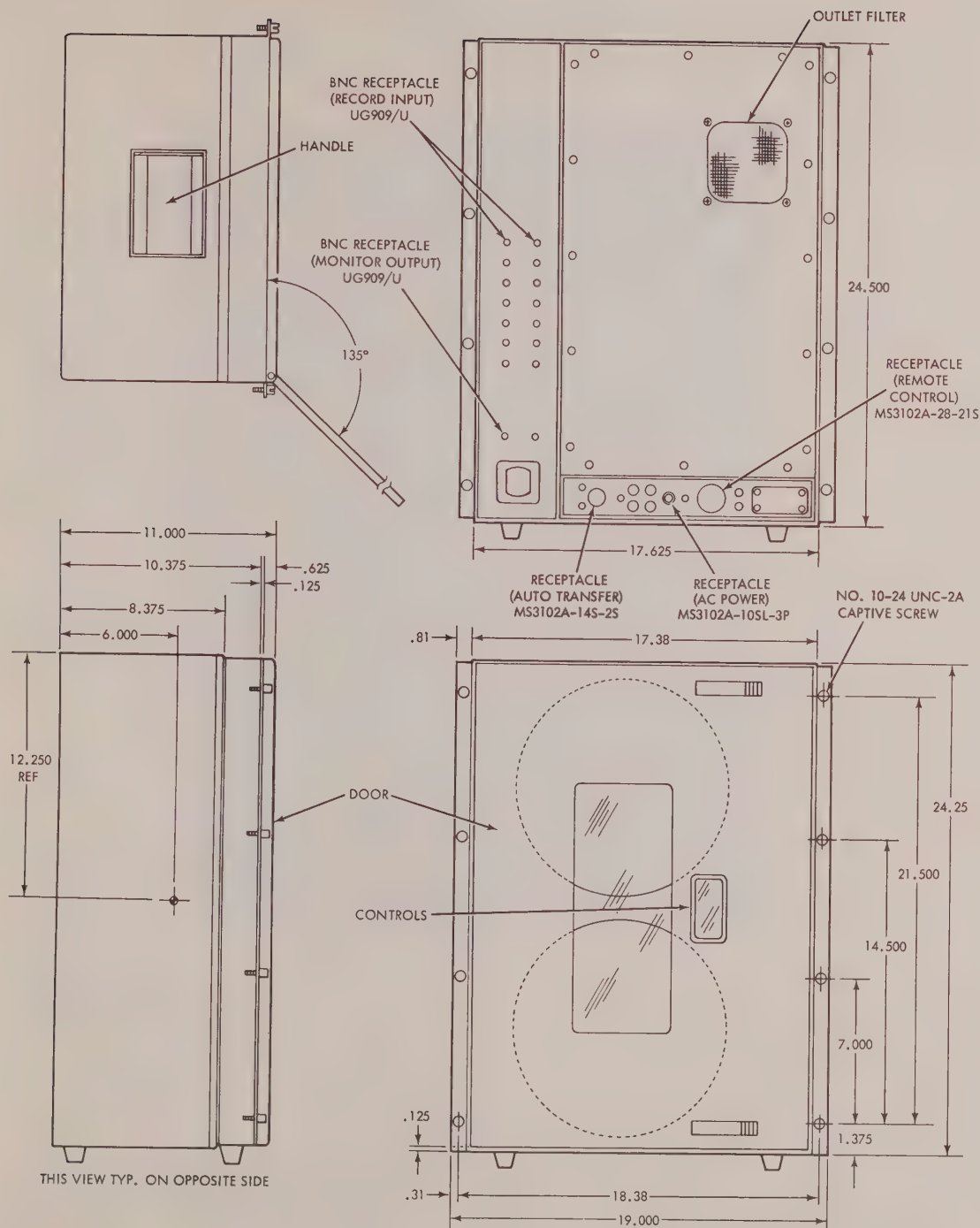
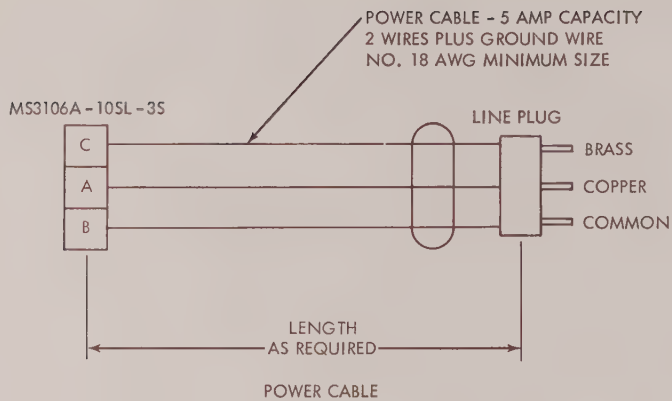


FIGURE 2-2. OUTLINE INSTALLATION DIMENSIONS OF RACK MOUNTING VERSION



NOTE:
CHOOSE POWER CABLE
SO VOLTAGE DROP DOES
NOT EXCEED 2 VOLTS
(LOAD OF 2.8 AMPERES,
115V AC)

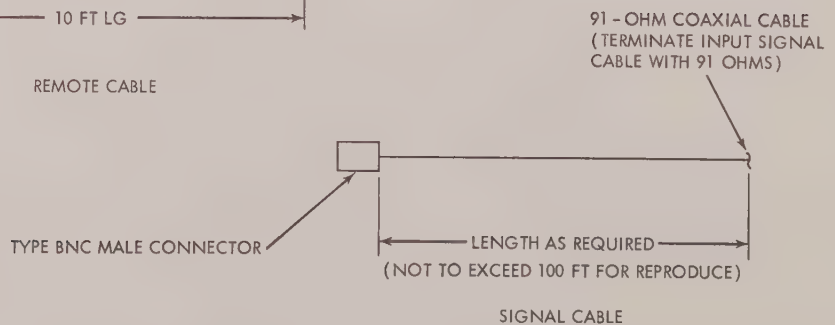
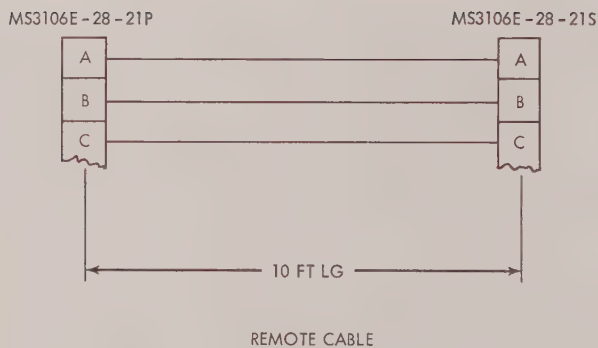
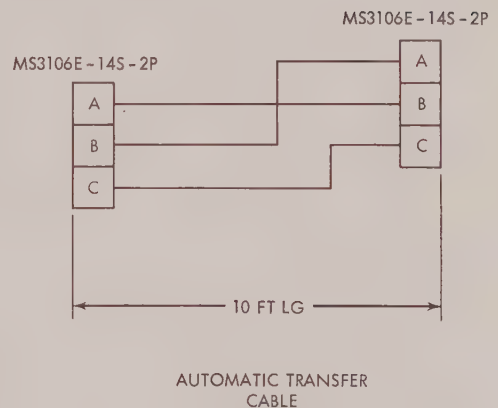


FIGURE 2-3. SIGNAL AND POWER CABLES

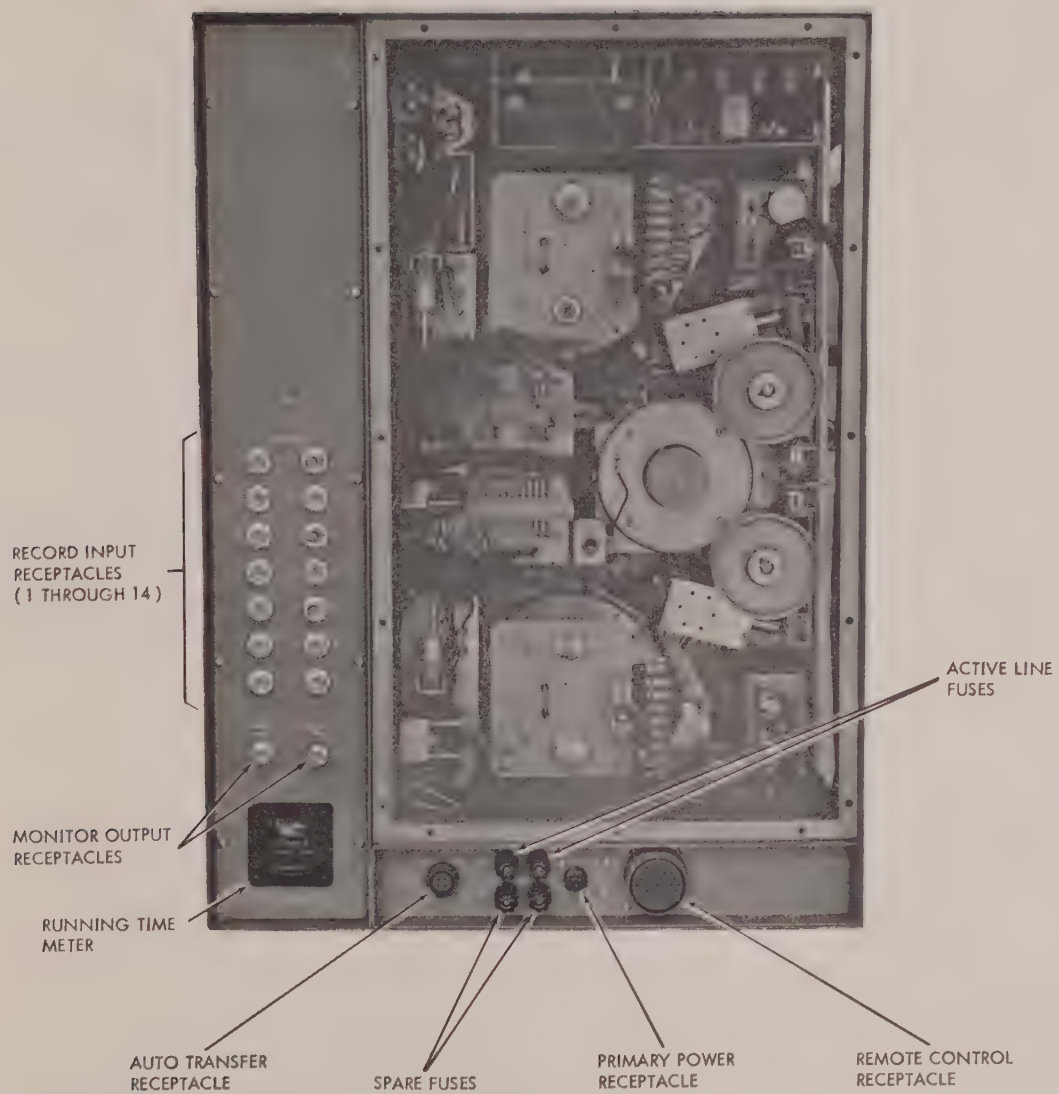


FIGURE 2-4. LOCATION OF CONNECTORS

2.7 AUTOMATIC TRANSFER CONNECTIONS (OPTIONAL)

An automatic transfer cable may be fabricated for use between two P-5114B recorders. This cable, which connects between the automatic transfer connectors on the rear of each P-5114B, is shown in Figure 2-3.

SECTION 3

OPERATING PROCEDURES

3.1 GENERAL

The P-5114B Portable Magnetic Tape Recorder/Reproducer System is adjusted, calibrated, and tested at the factory using a 1-volt rms input signal level, Memorex 62L magnetic tape, and a 1-volt rms output signal level. As long as the same input levels and tape types are used during subsequent operation, recalibration should be required only at periodical intervals due to head wear.

3.2 OPERATING PRECAUTIONS

In general, the following precautions apply to any direct analog tape recorder from which high accuracy and optimum operation is expected.

3.2.1 Tape and Reels

Use only recommended tape type and precision reels in excellent condition. Tape with dust or dirt on it may lift away from the heads and cause loss of high-frequency signals. Some tapes intended for non-critical use may smear the head gaps and thereby cause a temporary loss of high frequency response. Magnetic tape and reels recommended for use on P-5114B are listed in Table 3-1.

TABLE 3-1
RECOMMENDED TAPE AND REELS

TAPE	1-inch wide, polyester base, 1.0 mil Memorex 62L, or equivalent
REELS	10-1/2-inch NAB precision

The quality and condition of the tape reels can have a significant effect on the quality of tape recordings and reproduction. Excessive unbalance or misalignment of the reels may cause mistracking or flutter, resulting in degradation of tape signals.

3.2.2 Dirt and Dust Accumulation

To avoid contamination of the magnetic tape and tape-handling components, the front door of the recorder should be left closed whenever possible. Any accumulated dust or dirt should be immediately removed from the system. When necessary, clean components as described in paragraph 3.2.4.

3.2.3 Magnetization

It is extremely important that tape handling components, particularly the record and reproduce heads, do not become magnetized. Magnetization of these components can degrade the system signal-to-noise ratio and cause excessive second harmonic distortion. If the following instructions are observed, little difficulty should be encountered in this respect.

- a. Do not remove any module or printed circuit card with power ON.
- b. Do not saturate the magnetic heads with abnormally high input signals or unbalanced pulses.
- c. Do not connect an ohmmeter or other dc measuring device across the head windings, since the presence of the dc current may magnetize the head or damage the head windings.
- d. Do not allow magnetized components to come in contact or close proximity with the heads or other tape handling components.
- e. Do not locate the P-5114B in strong electrical or magnetic fields.
- f. Demagnetize heads daily (after 8 hours of use) or as performance checks indicate.
- g. Do not stop rotation of either supply reel or take up reel for more than five seconds, since this may damage the reel drive motor.

3.2.4 Cleaning

Cleaning the magnetic heads is important, since most tape manufacturers coat their tape with a lubricant that gradually forms a coating on components with which it comes in contact. Therefore, it is recommended that the head stacks be cleaned daily (after eight hours of use). Use a soft, lint-free cloth or Q-tip dampened (not saturated) with trichloroethylene. Be careful not to mar or scratch the surface of the head stacks. Other tape-handling components, including pinch rollers, capstan shafts, and roller guides, should be cleaned frequently as determined by periodic visual inspection.

3.3 OPERATOR CONTROLS AND INDICATORS

The following illustrations describe front panel controls and indicators that require adjustment or observation during normal operation or operational adjustment. Figure 3-1 illustrates the location of the transport panel controls and indicators. Figure 3-2 shows the monitor and sequencing panel controls and indicators.

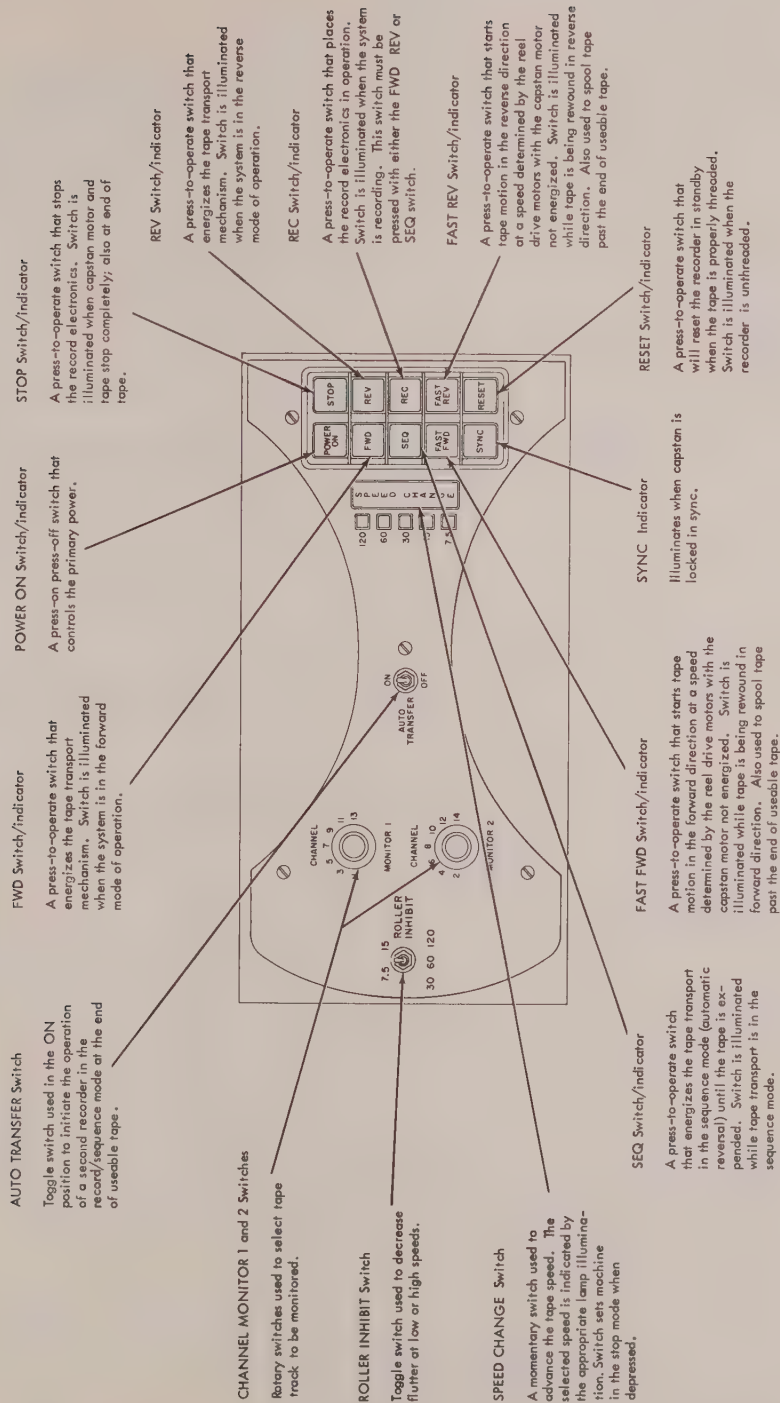


FIGURE 3-1. TRANSPORT PANEL CONTROLS AND INDICATORS

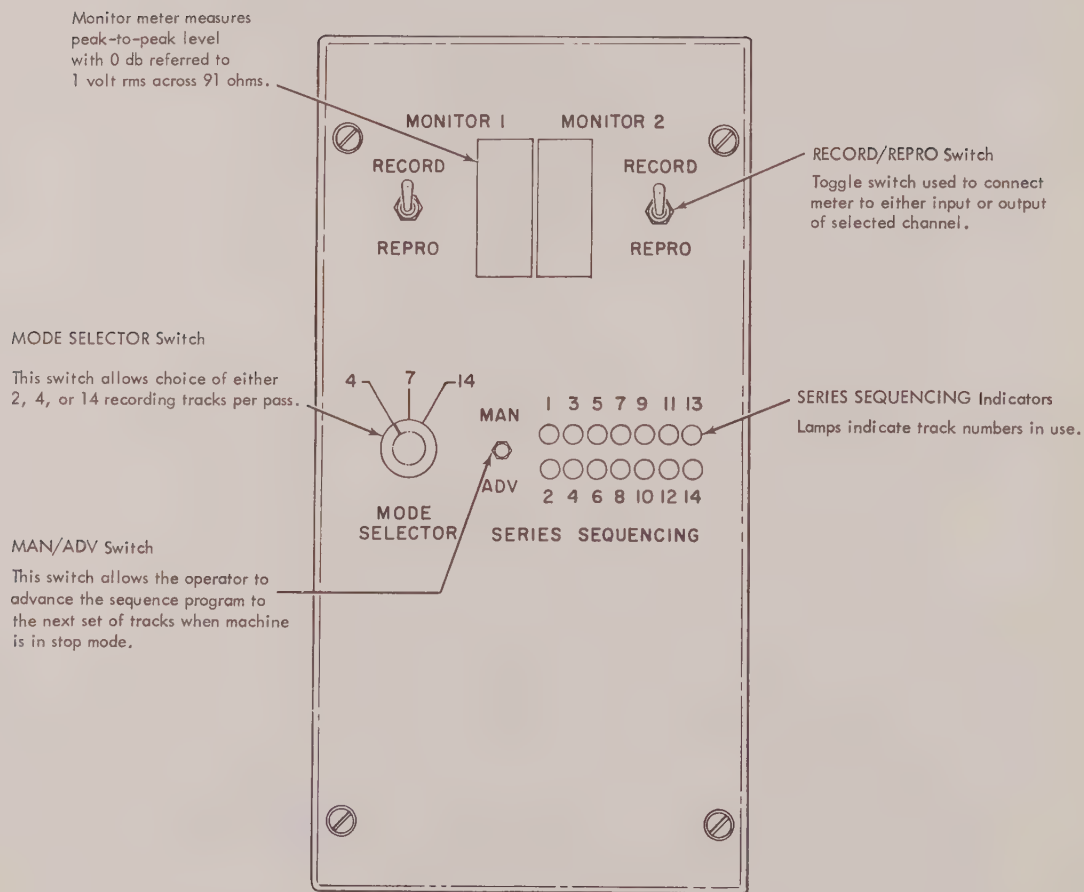


FIGURE 3-2. MONITOR AND SEQUENCING PANEL CONTROLS AND INDICATORS

3.3.1 Series Sequence Controls (Figure 3-2)

A three-position, rotary SELECTOR MODE switch is provided just below the monitor meters to select the number of tracks to be recorded on each pass during series sequence mode of operation. Either 4 or 7 tracks may be automatically recorded on each pass in alternating directions until the tape is filled with data, or one pass in which all 14 tracks are recorded simultaneously depending upon selection. The transport stops automatically when all programmed passes have been completed. Indicator lights (1 through 14) come on to indicate which tracks are being recorded during any pass. A pushbutton, MAN ADV (manual advance) switch permits manual stepping of the sequencing to the desired tracks.

3.4 AUTOMATIC CONTROLS

Table 3-2 describes all automatic controls included in the P-5114B as an aid to the operator.

TABLE 3-2
AUTOMATIC CONTROLS

NAME	DESCRIPTION
End-of-Tape Sensing	Phototransistors and associated circuits that sense end-of-usable tape, initiate a STOP command, and initiate next pass in reverse direction.
Tape-Break Sensing	A phototransistor circuit that is completed if the tape should break or whenever the transport is not threaded with tape and causes the system to go into STOP mode.
Belt Change	An electromechanical system that automatically positions the capstan drive belt on the capstan flywheel (pulleys) so that a differential drive is maintained when reels are moving in either direction.
Equalization Control	When the tape speed is changed, the equalizer electronics (modules) are changed automatically to provide the proper frequency passband per tape speed.

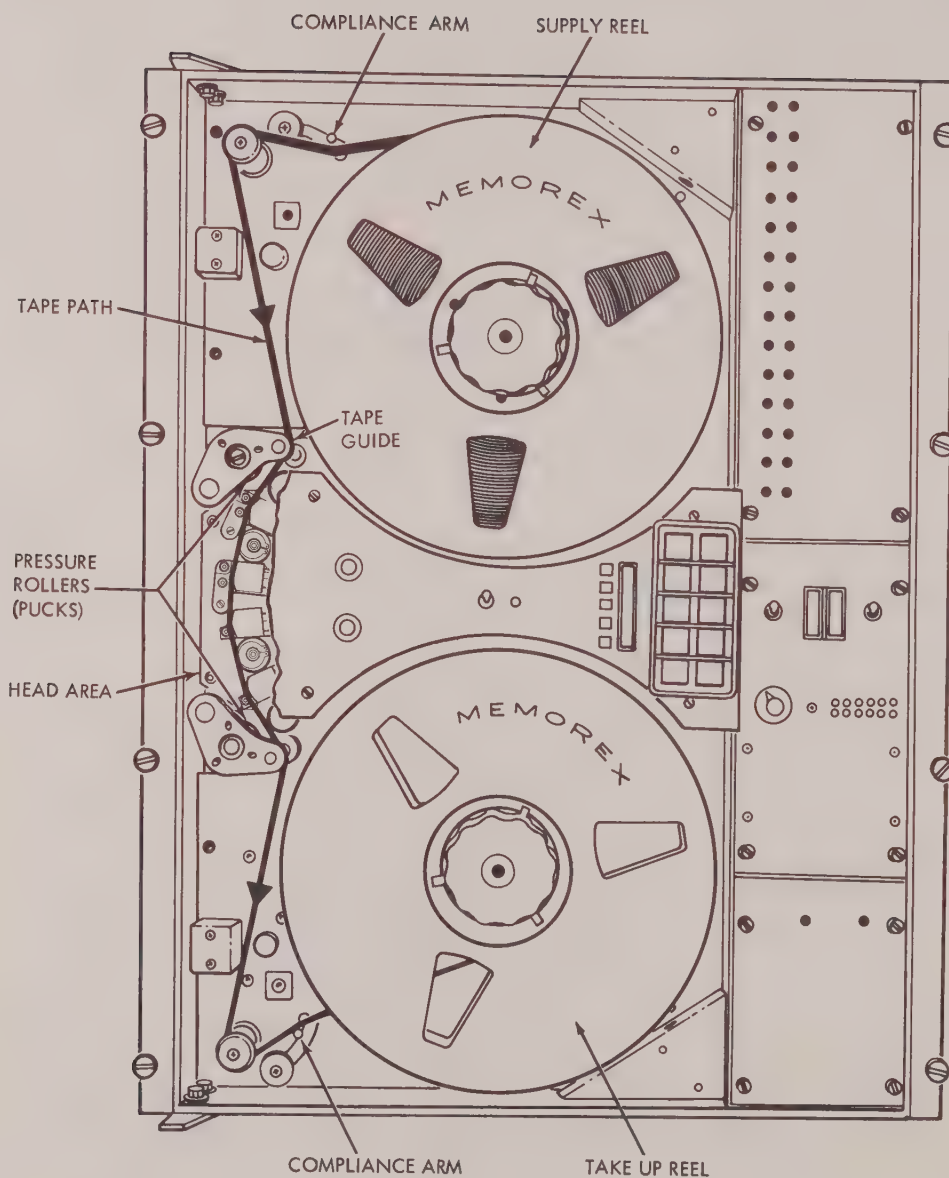


FIGURE 3-3. THREADING DIAGRAM

3.5 THREADING TAPE

To thread the tape transport, turn the reel hubs fully counterclockwise. Place the full reel of tape on the upper spindle and secure in place by turning the hub fully clockwise. Thread the magnetic tape into the transport system as shown in Figure 3-3. Attach the loose end of the tape into the lower reel and manually rotate the reel approximately ten turns.

3.6 POWER ON

Once the desired signal and power cables have been properly connected to the equipment, the operator should ascertain that the 230/115-volt switch is in a position corresponding to the ac line voltage. To energize the system, press the POWER ON switch; the switch indicator should light.

3.7 SPEED SELECTION

To select a tape speed, repeatedly press the SPEED CHANGE switch (Figure 3-1) until the desired speed is indicated. The selection of tape speed is accomplished only at the local control panel on the system. The selected speed is displayed by the appropriate indicator lamp on the control panel and on the remote control unit.

3.8 MODE SELECTION AND OPERATION

Once the tape speed has been selected, operation of the system consists of pressing the appropriate switches on the control panel illustrated in Figure 3-1.

3.8.1 Recording

To record, press the FWD, REV, or SEQ switch and the REC switch simultaneously; the FWD, REV, or SEQ indicator and REC indicator should light. Near the end of the tape (end-of-usable tape), the tape motion will stop and the STOP indicator will light.

3.8.2 Fast Rewind

To rewind the tape (interrupting forward or reverse operation), press either the FAST FWD or FAST REV switch, as applicable. To wind tape completely off a reel, press the FAST FWD or FAST REV, whichever is appropriate, after end-of-usable tape is reached.

3.8.3 Stopping Tape Motion

To stop the tape motion, press the STOP switch. All indicator lights will go out. When motion of the capstan and reels has completely stopped, then the STOP indicator will light.

3.8.4 Record Monitor

While the P-5114B is recording, monitoring of the recorded signals is accomplished by setting the RECORD/REPRO switches (Figure 3-2) to RECORD and the CHANNEL MONITOR 1 and CHANNEL MONITOR 2 switches (Figure 3-1) to the desired tracks to be monitored. The record levels are then indicated by the peak-to-peak meter. If the record signal requires adjustment, refer to the adjustment procedures provided in this section.

3.8.5 Reproduce Operation

During the reproduce mode, signals may be reproduced while the tape is moving in either the forward or reverse direction. When the front panel POWER ON switch is pressed, the reproduce electronics are energized. If the reproduce level should require adjustment, refer to adjustment procedures provided in this section.

3.8.6 Series Sequence Recording

To select the number of tracks to be recorded on each pass, rotate the MODE SELECTOR switch (Figure 3-2) to the desired position (4, 7, or 14). If 14 is chosen, only one pass is possible, since this is the maximum number of tracks available. When 4 or 7 tracks per pass are selected, the system will record the selected number of tracks on the first pass, automatically reverse direction and record the same input data sources on the next set of tracks, and continue in this manner until the tape is full.

To record, press the SEQ switch and then press the REC switch. Either the FWD or REV indicator will light and the tracks being recorded will be shown by the appropriate track indicators. Near the end of the tape (end-of-usable tape), the direction of tape motion will reverse (except for the 14-tracks-per-pass mode) and the system will begin recording on the next set of tracks. The direction of tape motion and tracks being recorded will be indicated on the control panel and monitor and sequencing panel. This sequence will continue automatically until all the available tracks have been recorded or until the sequence is overridden manually. If it is desired to manually override the automatic sequence and use the next set of tracks, press STOP switch and let machine come to a stop, press and release MAN ADV switch, and press SEQ and REC switches. The system will reverse directions and begin recording on the next set of tracks.

3.8.7 Flutter Reduction

To reduce flutter at low speeds, set ROLLER INHIBIT switch (Figure 3-1) to up position for optimum tape motion at 7.5 and 15 ips. To reduce flutter at high speeds, set ROLLER INHIBIT switch to down position for optimum tape motion at 30, 60, and 120 ips.

TABLE 3-3
TEST EQUIPMENT

TYPE OF TEST EQUIPMENT (OR EQUIVALENT)	SHORT NAME	USE
Signal Generator, Hewlett Packard HP 650A	Sine Wave Oscillator	To provide the sine wave test input signals for operational adjustments.
Sweep Oscillator, Tel Instrument Corporation Model 1105	Sweep Oscillator	To provide test input signals, periodically varying in fre- quency, for operational adjust- ments.
Square Wave Oscillator, Hewlett Packard HP 211A	Square Wave Oscillator	To supply square wave test input signals for amplitude and phase equalization adjustment.
Oscilloscope, DuMont 766H with 76-05 and 74-13A Plug-ins	Oscilloscope	To provide visual display of waveforms when operator is making operational adjust- ments.
AC Vacuum Tube Volt- meter, Hewlett Packard HP 400L	VTVM	To measure input and output signals.
Wave Analyzer, Hewlett Packard HP 310A	Wave Analyzer	To measure the third harmonic content of output signal to verify that operational ad- justments have been made correctly.

3.9 OPERATIONAL ADJUSTMENTS

Operational adjustments consists of establishing the normal record level, optimizing the bias level, and setting the reproduce output level and equalization. These adjustments are necessary only if the input signal level or magnetic tape type is changed and should be checked and possibly touched up after each 100 hours of operation to compensate for head wear. Table 3-3 lists the required test equipment and the following paragraphs describe the adjustment procedures.

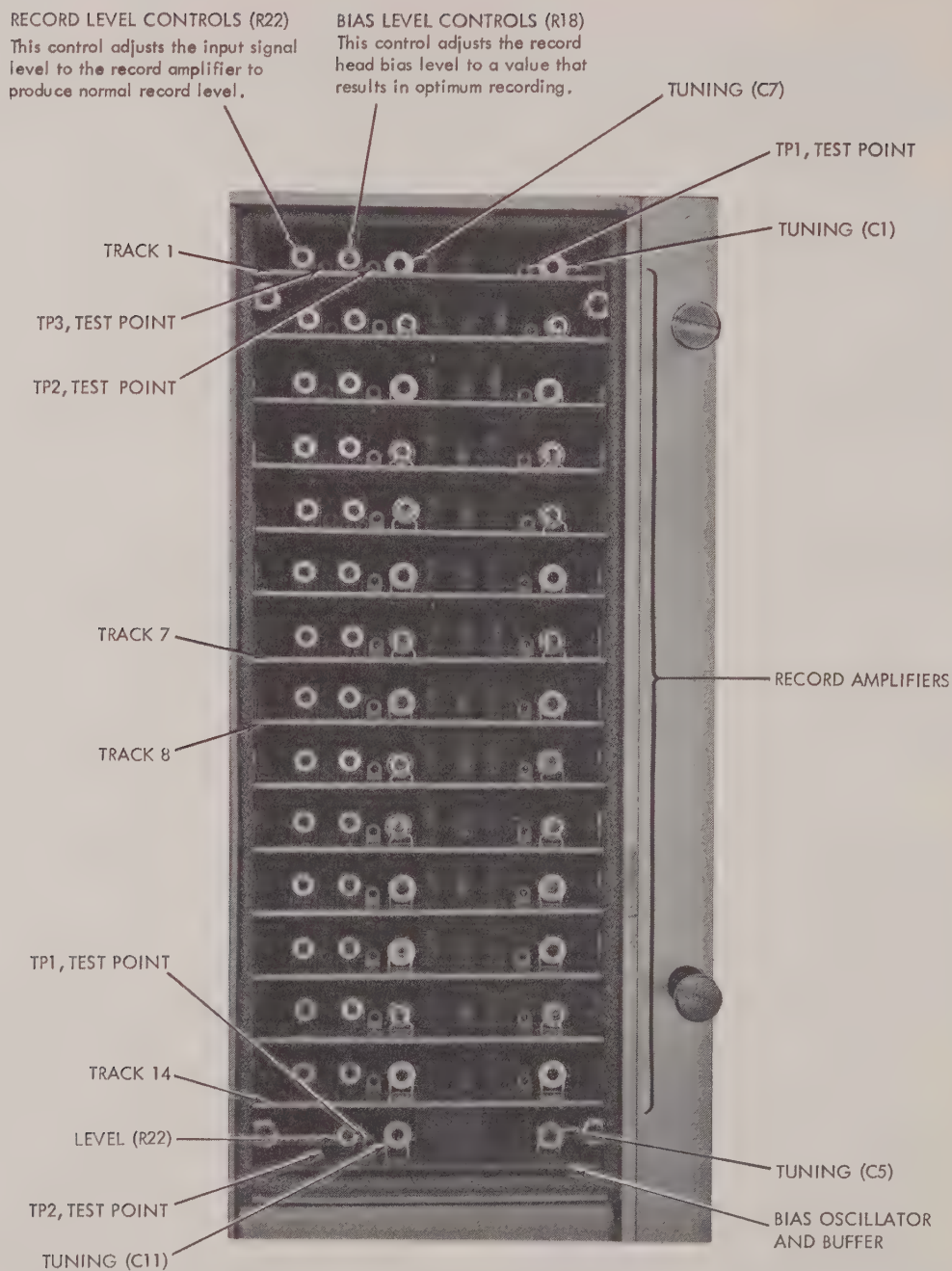


FIGURE 3-4. RECORD ADJUSTMENT LOCATION

3.9.1 Record Level

For a specified brand and type of magnetic tape and a given amount of bias current, the record level determines the amount of distortion in the recording. The principal distortion resulting from magnetic tape overload is the third harmonic component which rises with increasing record current. The relationship between the record and distortion is not linear, except at very low levels of distortion. Once a level of 2 or 3 per cent harmonic distortion has been reached, distortion increases very rapidly with further rises in record current. Hence, from the distortion viewpoint, it is better to record at low level. However, recording at too low a level adversely affects the signal-to-noise ratio of the system. For these reasons it is necessary to determine the normal record level for a given input voltage and signal-to-noise ratio. For the P-5114B, the normal record level is defined as the level of record current that, upon reproduction, results in the desired maximum band edge output and having a maximum harmonic distortion of not more than 1.5 per cent at 10 kc when reproducing at 2-mc bandwidth.

3.9.2 Record Adjustment Procedures

The following procedures are used to establish the proper record and bias levels. There are separate record and bias level adjustments for each of the record tracks. Record adjustments and test points are illustrated in Figure 3-4.

- a. Thread a reel of clean, bulk degaussed magnetic tape on the transport.
- b. Set tape speed according to Table 3-4.

TABLE 3-4

RECORD BIAS ADJUSTMENT FREQUENCIES

TAPE SPEED AND UPPER BAND EDGE	BIAS SET FREQ	OVER BIAS	% 3RD HARMONIC AT 10KC, 60 IPS
2.0 mc at 120 ips	2.0 mc	1 db	1.5
1.5 mc at 120 ips	1.5 mc	1 db	1
1.2 mc at 120 ips	600 kc	1 db	1

- c. Connect test equipment as shown in Figure 3-5 with the sine wave oscillator connected to RECORD INPUT 1 receptacle. Connect the oscilloscope to MONITOR 1 output receptacle. Set CHANNEL MONITOR 1 switch to position 1.
- d. Adjust the output level of the oscillator to the same value as that of data to be recorded on track 1. Set oscillator frequency according to Table 3-4.
- e. Operate the system to record by simultaneously pressing the FWD and REC switches.
- f. Adjust the RECORD LEVEL control for track 1 so the output displayed on the oscilloscope just begins to decrease at the band edge frequency; then, reduce record level control setting until the reproduce output level decreases 2 db.
- g. Adjust the BIAS LEVEL control to obtain maximum output at TAPE SPEED AND UPPER BAND EDGE frequencies as indicated in Table 3-4.
- h. Increase the setting of the BIAS LEVEL control (cw) until the output signal is decreased by an amount indicated by the OVER BIAS column in Table 3-4.
- i. Repeat steps f, g, and h as required.
- j. Connect a wave analyzer to MONITOR 1 output receptacle. Set the sine wave oscillator output frequency to 10 KC. Observe third harmonic in distortion measurements at 60 ips.
- k. If third harmonic distortion measurements are out of specification, reduce the setting of the RECORD LEVEL control until these measurements are within system specifications.
- l. Repeat steps e through i for each of the remaining tracks. For each adjustment, connect the oscillator to the RECORD INPUT receptacle for the track being adjusted, set the CHANNEL MONITOR 1 or CHANNEL MONITOR 2 switch to the position corresponding to this track, and connect the test equipment to either MONITOR 1 or MONITOR 2 output receptacle. Note that the output level of the sweep oscillator must be adjusted to the level of the data to be recorded on each separate track.

NOTE

Level potentiometer (R22) on bias oscillator and buffer board is a factory adjustment and should not be touched. If adjustment is required, monitor between TP1 (+) and TP2 (-) with an oscilloscope and adjust level potentiometer (R22) for 12 volts p-p.

3.9.3 Reproduce Adjustments

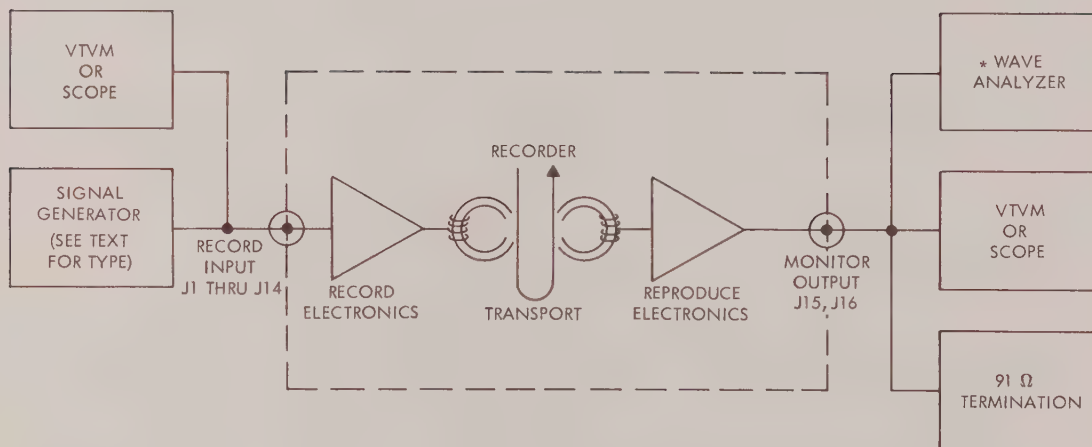
To achieve the full performance capabilities of the P-5114B, the reproduce equalization must be adjusted as shown by the solid response curve in Figure 3-6. Reproduce adjustment locations are also shown in Figure 3-6. These adjustments must be made for each speed at which monitoring or reproduce operation is to take place. Note that a 91-ohm line termination is required on the output terminals at all times. Refer to Figure 3-5 for the test setup used to perform these adjustments.

3.9.4 Reproduce Adjustment Procedures

To make the reproduce equalization and level adjustments, proceed as follows:

- a. Set up the test equipment as shown in Figure 3-5, using the square wave oscillator as the signal input.
- b. Repeatedly press the SPEED CHANGE switch until the desired speed is indicated.
- c. Thread a reel of clean, bulk degaussed tape on the transport.
- d. Set the square wave oscillator to the SQUARE WAVE frequency listed in the appropriate table (3-5, 3-6, or 3-7) and the level to that of the data to be recorded on the particular track being monitored (See step d, para 3.9.2).
- e. Record the square wave input and observe the reproduced output on the oscilloscope.
- f. Adjust the PHASE ADJ control on the appropriate equalizer for best square wave output. It may be necessary to touch up the high-frequency adjustment to obtain the best square wave response. The equalization adjustments affect the square wave response as follows:

Phase Adjustment (R4)	Pre-ring, post-overshoot and tilt.
High-Frequency Control (R3)	Controls the high-frequency ringing level.
Mid-Range Control (R2)	Controls the low-frequency tilt.



* REQUIRED ONLY FOR MEASUREMENT
OF HARMONIC DISTORTION

FIGURE 3-5. RECORD AND REPRODUCE TEST SETUP

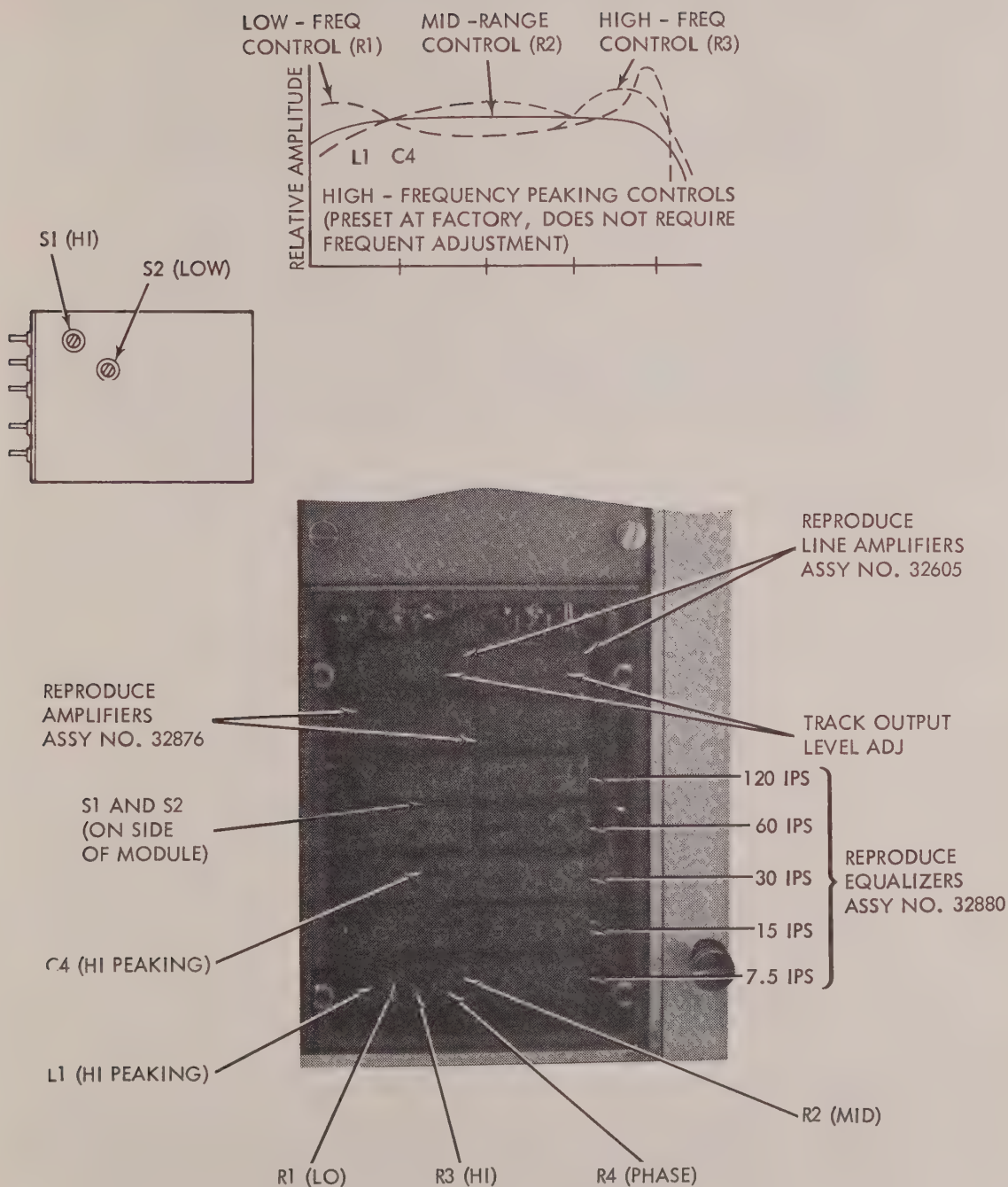


FIGURE 3-6. REPRODUCE ADJUSTMENT LOCATION

- g. Using the sine wave oscillator as the signal input, set the frequency of the sine wave oscillator to the REFERENCE FREQUENCY listed in the applicable table (3-5, 3-6, or 3-7).
- h. Operate the P-5114B to record by pressing FWD and REC switches.
- i. Adjust the OUTPUT LEVEL control for an output (reference) level of 1 volt rms.
- j. While keeping the output of the sine wave oscillator constant, set the frequency of the oscillator to the LOW FREQUENCY listed in the tables. Adjust the low frequency control R1 (Figure 3-6) on the appropriate equalizers so the amplitude is 2.5 db below the output level obtained in Step i. Slowly sweep the oscillator up in frequency to the reference frequency and note that the frequency response specification is met. Re-adjust low-frequency control R1 as required to obtain optimum response.

NOTE

If necessary, adjust S2 during low-frequency adjustments after Step j; repeat Step g thru j after each attempt, as required. Switches S1 (H1) and S2 (LOW) are preset at the factory and normally do not require further adjustment. If adjustment of these controls should become necessary, the equalizer module must be removed to gain access to S1 and S2. Always turn off the power before unplugging any of the electronic modules.

- k. Set the sine wave oscillator to the MID-RANGE FREQUENCY listed in the tables.
- l. While recording, monitor the output and adjust the mid-range control R2 on the appropriate equalizer so the output is 1 volt rms.
- m. Set the sine wave oscillator to the HIGH FREQUENCY listed in the tables. While recording, observe the monitor output on the oscilloscope. A certain amount of magnetic crosstalk between the record and reproduce heads will give a beat or interference waveform due to tape motion irregularities. Adjust the reproduce head azimuth alignment screw for maximum output.

- n. While recording, monitor the output and adjust high-frequency control R3 on the appropriate equalizer so the output is 2.5 db below the reference level obtained in Step i.
- o. While maintaining the input at a constant level, sweep the sine wave oscillator frequency slowly through the passband and observe the output level. If a dip or rise occurs in the hi-range (between mid-range and the upper band-edge), set the oscillator frequency to the frequency causing the maximum dip or rise. Adjust L1 to provide the best (flat) response possible. Repeat Steps m and n, adjusting C4 for maximum output as often as necessary.
- p. Re-check response for a dip or rise in the curve. If response is still out of specifications, adjust S1 as required to obtain a flat response, repeating Step o for each setting of S1.
- q. Check the frequency response over the entire passband and make any necessary trimming adjustments, as described in Steps g through p.

TABLE 3-5
EQUALIZATION FREQUENCIES
(2.0 MC AT 120 IPS)

MODULE CODE NO.	TAPE SPEED (IPS)	REF FREQ (KC)	MID-RANGE FREQ (KC)	HIGH FREQ (KC)	LOW FREQ (CPS)	SQUARE WAVE (KC)
1102-A	120	10	200	2000	800	25
1103-A	60	10	100	1000	800	25
1104-A	30	5	50	500	800	10
1105-A	15	5	25	200	400	10
1106-A	7-1/2	5	12.5	100	400	10

TABLE 3-6
EQUALIZATION FREQUENCIES
(1.5 MC AT 120 IPS)

MODULE CODE NO.	TAPE SPEED (IPS)	REF FREQ (KC)	MID-RANGE FREQ (KC)	HIGH FREQ (KC)	LOW FREQ (CPS)	SQUARE WAVE (KC)
1153-A	120	10	200	1500	400	25
1154-A	60	10	100	750	400	25
1155-A	30	5	50	375	400	10
1156-A	15	5	25	187.5	400	10
1157-A	7-1/2	5	12.5	93.75	400	10

TABLE 3-7
EQUALIZATION FREQUENCIES
(1.2 MC AT 120 IPS)

MODULE CODE NO.	TAPE SPEED (IPS)	REF FREQ (KC)	MID-RANGE FREQ (KC)	HIGH FREQ (KC)	LOW FREQ (CPS)	SQUARE WAVE (KC)
1147-A	120	10	200	1200	400	25
1148-A	60	10	100	600	400	25
1149-A	30	5	50	300	300	10
1150-A	15	5	25	150	300	10
1151-A	7-1/2	5	12.5	75	300	5

3.9.5 Monitor Meter Adjustment

The following procedures are used to establish the proper record and reproduce levels for the monitor meters. Separate level and calibration adjustments for each of the two monitor meters are illustrated in Figure 3-7.

- a. Loosen the monitor and sequencing panel and place it to one side. Do not disturb the electrical connection.
- b. Turn the P-5114B off and use the card extender available for the monitor meter amplifier card.
- c. Thread a reel of clean, bulk degaussed magnetic tape on the transport.
- d. Turn the P-5114B on and tape speed to 120 ips.
- e. Connect sine wave oscillator to RECORD INPUT 1 receptacle. Connect VTVM to junction of C1 and R1 with ground lead connected to chassis ground.
- f. Set sine wave oscillator output frequency to 10 KC and output level to 1 volt rms.

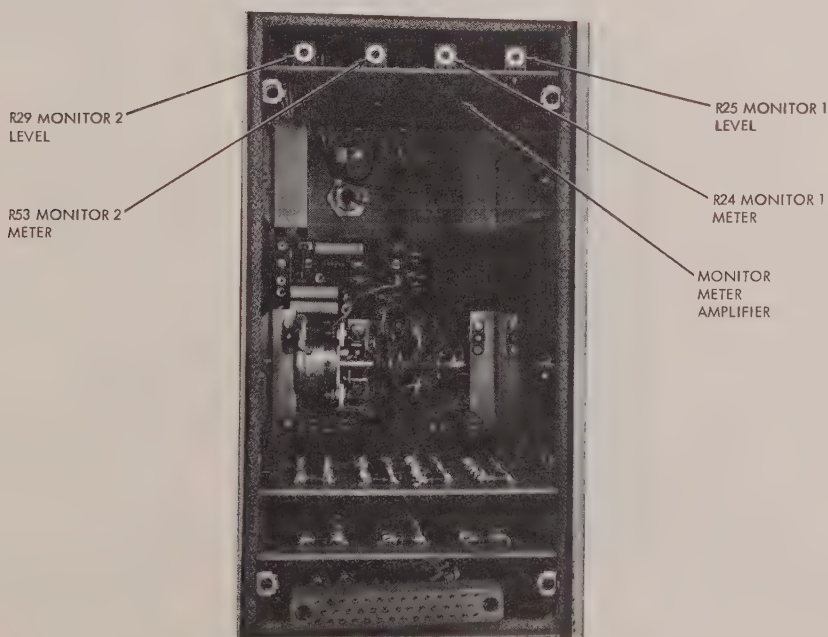


FIGURE 3-7. MONITOR METER ADJUSTMENT LOCATION

- g. Operate the P-5114B to record by simultaneously pressing the FWD and REC switches.
- h. Set CHANNEL MONITOR 1 switch to position 1 and MONITOR 1 RECORD/REPRO switch to RECORD.
- i. Adjust control R25 for 80 millivolts rms as indicated on VTVM. Observe that MONITOR 1 meter indicates 0 DB. If necessary, adjust control R24 until MONITOR 1 meter indicates 0 DB.
- j. Connect sine wave oscillator to RECORD INPUT 2 receptacle. Connect VTVM to junction of C10 and R28 with ground lead connected to chassis ground.
- k. Maintain sine wave oscillator frequency at 10 KC and outlet level at 1 volt rms.
- l. Set CHANNEL MONITOR 2 switch to position 2 and MONITOR 2 RECORD/REPRO switch to RECORD.
- m. Adjust control R29 for 80 millivolts rms as indicated on VTVM. Observe that MONITOR 2 meter indicates 0 DB. If necessary, adjust control R53 until MONITOR 2 meter indicates 0 DB.

SECTION 4

MAINTENANCE

4.1 GENERAL INFORMATION

This section consists of preventive maintenance procedures, general troubleshooting information and mechanical and electrical service adjustments. Maintenance should be performed only by qualified technicians and personnel familiar with this type and class of equipment. Refer to Section 3 for a list of test equipment and for operational adjustment procedures.

4.2 ACCESS TO THE RECORDER/REPRODUCER INTERIOR

To gain access to the interior of the recorder/reproducer, remove the side and rear access panels. The important mechanical components and subassemblies are then exposed for visual inspection (see Figure 4-1). Refer to the P-5114B Parts List for parts identification.

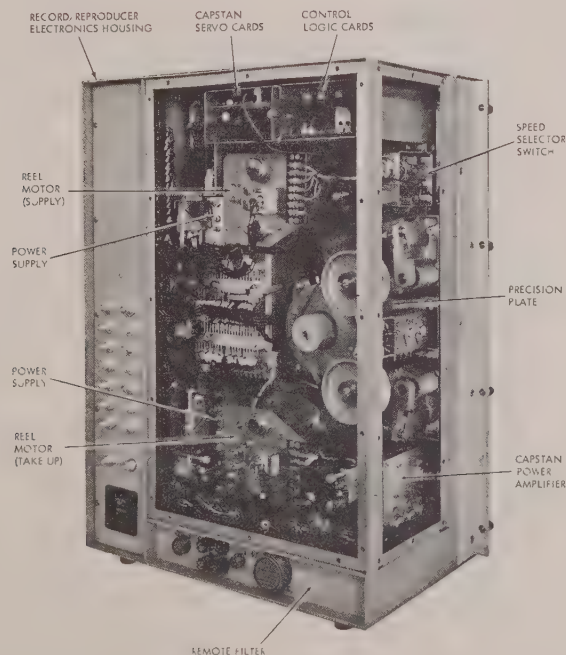


FIGURE 4-1. REAR VIEW, INTERIOR

The following subassemblies can be extended on card-extenders for checkout:

- a. Power supply regulator card used with card extender 33090.
- b. Capstan servo cards (2) used with card extender 34812.
- c. Bias oscillator and buffer card used with card extender 34811-2.
- d. Record amplifier cards (14) used with card extender 34811-1.
- e. Control logic No. 1 used with card extender 34808-1.
- f. Control logic No. 2 used with card extender 34808-2.
- g. Series sequence No. 1 used with card extender 34809-1.
- h. Series sequence No. 2 used with card extender 34809-2.
- i. Monitor amplifier card used with card extender 34810.

4.3 PREVENTIVE MAINTENANCE

Preventive maintenance for the P-5114B should be scheduled and performed as described in Table 4-1. Scheduling of preventive maintenance is related to the operating environment and the use to which the equipment is subjected. The schedules given in Table 4-1 assume that the equipment is used under field conditions. When the equipment is used under other conditions, the schedules should be adjusted accordingly.

4.4 CAPSTAN DRIVE BELT REPLACEMENT

Conditions that seriously affect belt life are:

- a. Sharp creases in the belt
- b. Nicks in the belt
- c. Elongation of the belt edges, as would be caused by squeezing the belt edges while the belt is under tension.

To replace a damaged capstan drive belt, remove the recorder/reproducer side and rear access panels. Using an Allen key, loosen but do not remove the three mounting screws for the motor-tachometer assembly, Figure 4-2. Slide the assembly toward the capstans to release the belt tension and replace the belt. When in proper position, the belt will be centered on one of the crowns on the motor pulley. Slide the motor back and tension the belt by applying a 15 lb force on the motor housing as shown in Figure 4-2 and secure the mounting screws.

TABLE 4-1

PREVENTIVE MAINTENANCE SCHEDULES AND PROCEDURES

ITEM	SCHEDULE	PROCEDURE
1	After every 8 hours of operation	Clean head stacks. Inspect tape handling components and clean, if necessary (Section 3)
2	After every 8 hours of operation	Demagnetize head stacks (Section 3)
3	After every 50 hours of operation	Clean blower screen on bottom of machine
4	After every 100 hours of operation	Check record and reproduce operational adjustments (Section 3)
5	After every 500 hours of operation	Replace drive belt
6	After every 1000 hours of operation	a. Listen for noise indicating worn bearings b. Check voltage measurements in capstan servo and data electronics

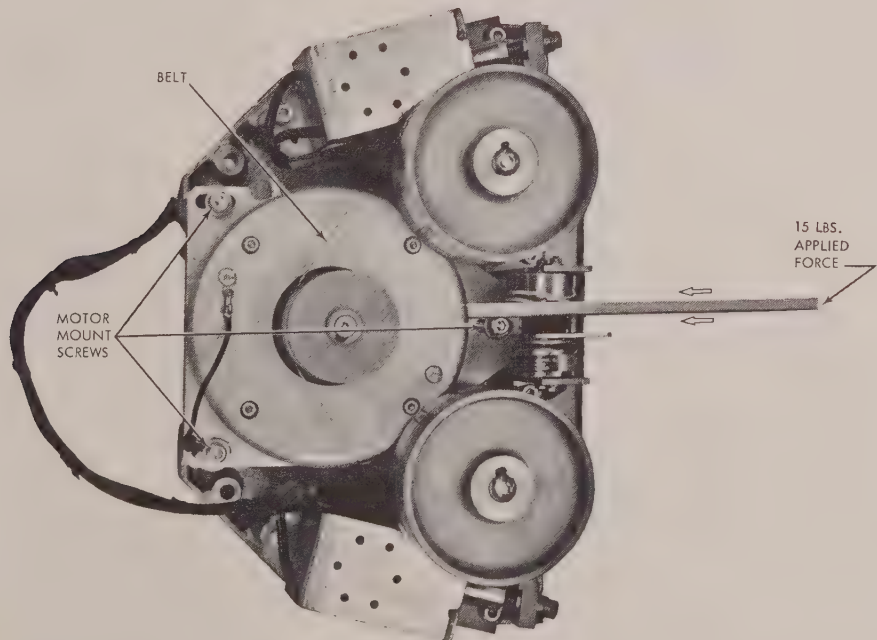


FIGURE 4-2. CAPSTAN MOTOR MOUNT SCREW LOCATION

4.5 MAGNETIC HEAD REPLACEMENT

The life expectancy of the magnetic heads is in excess of 1500 hours when proper tapes and mechanical alignment procedures are employed. When removing these heads, either for inspection or replacement, certain precautions should be exercised.

CAUTION

Degauss tools used in head installation.

- a. Degauss heads before installing.
- b. The head connection plugs should be very carefully removed (and replaced) so as to prevent damage to the connection pins.
- c. When installing a head, the base plate and head mounting surfaces must be free of dirt and other contaminants.
- d. Before tightening the mounting screws, be sure the head is rotated to contact the alignment pin at the base. This procedure is important to maintain the proper distance between the pairs of record or reproduce heads.

When reconnecting the plugs, note that each cable is identified with the proper track number and that the numerical sequence starts at the base of the head.

4.6 TROUBLESHOOTING

In general, malfunctions can be classified into (1) those associated with tape movement, and (2) those associated with recording and reproducing the data signals. These classifications are based on the symptom that is immediately apparent to the observer and not necessarily on the ultimate cause of the malfunction. Table 4-2 gives information on possible causes and related localization and corrective procedures for some symptoms of malfunction in the system. Because of the nature of the system, indications other than the direct symptom can often aid in localizing or eliminating possible defective components. The OTHER INDICATIONS column in Table 4-2 has been provided for this purpose. Make any necessary operational test (Section 3) to check the performance of the system against the entries in this column.

NOTE

Before attempting to service any suspected plug-in card, substitute a new card to verify the fault.

TABLE 4-2
TROUBLESHOOTING

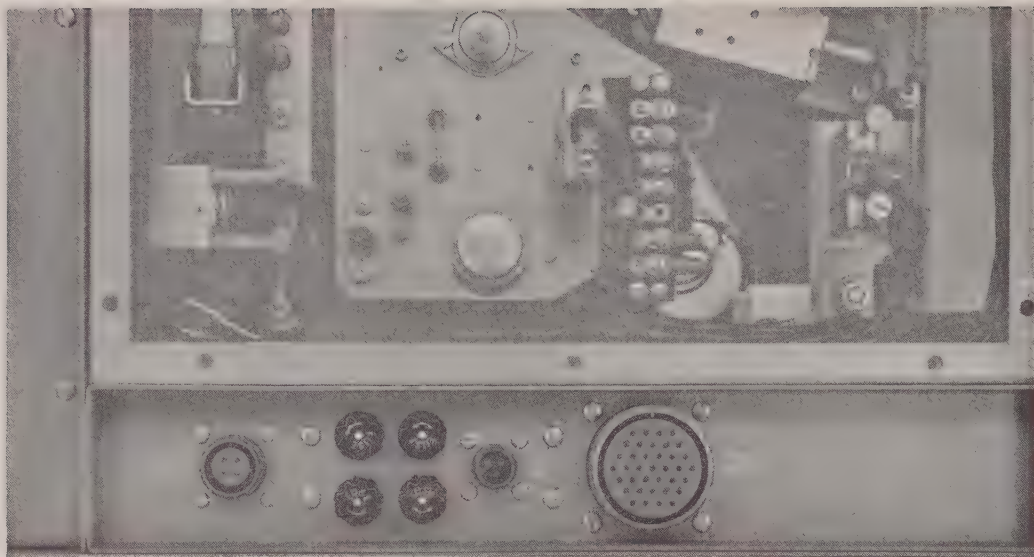
BASIC SYMPTOM	OTHER INDICATIONS	POSSIBLE CAUSE	LOCALIZATION AND/OR CORRECTIVE PROCEDURE
System power turned on but STOP and POWER ON indicators do not light	And system inoperative in all other modes	Blown line fuse Defective master control regulator	If fuse is blown, check for shorted circuits throughout power system (see Figures 6-2 through 6-5) before replacing blown fuse(s). Refer to Figure 4-3. Measure output voltage of regulator, voltage should be 22.0 volts dc (Figure 4-4). Replace power supply if defective, or adjust regulator.
Brakebands fail to release	And pinch rollers do not activate	+48 volts dc not present	Check power supply; repair or replace.
Pinch rollers do not fully engage and tape fails to achieve proper speed	But brakes operate properly	Loose puck actuating arm.	Tighten puck arms per paragraph 4.12.
No tape movement in FWD or REV modes	But tape transport operates normally in FAST FWD and FAST REV modes	Capstan power amplifier defective	Check for short in capstan power amplifier.

TABLE 4-2 (continued)

BASIC SYMPTOM	OTHER INDICATIONS	POSSIBLE CAUSE	LOCALIZATION AND/OR CORRECTIVE PROCEDURE
FAST FWD and FAST REV modes do not operate	And dynamic braking is not present	Defective servo logic relays	Perform reel adjustments per paragraph 4.8. Replace relays, if defective.
	But dynamic brakes are operating properly	Faulty relay in control logic	Replace reel amplifier board. If operation is proper, check relays and replace, if necessary.
FAST FWD and dynamic brakes in reverse direction do not operate	But FAST REV and dynamic brakes in forward direction operate properly	Faulty relay in lower reel amplifier	Replace reel amplifier board. If operation is proper, check operation of relays and replace, if necessary.
FAST REV and dynamic brakes in the forward direction do not operate	But FAST FWD and dynamic brakes in reverse direction operate properly	Faulty relay in upper reel amplifier	Replace reel amplifier board. If operation is proper, check relays and replace, if necessary.
Capstan motor overspeeds in FWD and REV modes	And transport operates properly in FAST FWD and FAST REV modes	Coax from tachometer loose	Tighten connectors.
		Defective input amplifier and countdown board	Replace board. (Figure 4-6.) If capstan operates properly, check and replace defective component.

TABLE 4-2 (continued)

BASIC SYMPTOMS	OTHER INDICATIONS	POSSIBLE CAUSE	LOCALIZATION AND/OR CORRECTIVE PROCEDURE
Tape transport throws loops during start-up at 60 and 120 ips		Defective slow start circuit in capstan power amplifier assy	Check transistors Q1 and Q2 in slow start circuit. Replace if defective (Figure 6-3).
Excessive wow and flutter	And capstan motor is in synchronization	Dirt on capstans and/or pinch rollers	Clean capstans and pinch rollers.
		Damaged or dirty reel flanges	Replace or clean reels.
		Dirty heads	Clean heads (Section 3).
		Defective guide rollers on head assy	Check and replace guide rollers as required.
		Damaged capstan motor drive belt	Replace drive belt (para 4.4).
		Excessive tape tension outside the capstans	Adjust reel servo current. See para 4.8.
		Damaged mechanical parts in precision plate assembly	Replace worn or defective parts.
	And capstan motor is in synchronization, but flutter is excessive above 3 kc	Dirty tape	Replace tape.

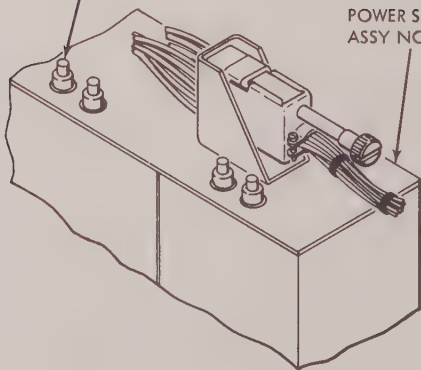


AC LINE FUSES
F1 AND F2 AND SPARES
4A SLO-BLO

FIGURE 4-3. FUSE LOCATION

REEL SUPPLY +9 TO +18 VDC
DEPENDING ON LOAD

POWER SUPPLY
ASSY NO. 34436



+22 VDC
REGULATED
TEST POINT
(PIN P)

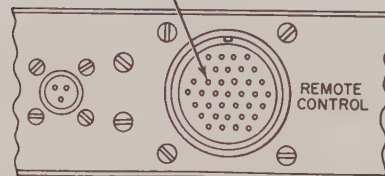


FIGURE 4-4. POWER SUPPLY VOLTAGE CHECK POINTS

TABLE 4-2 (continued)

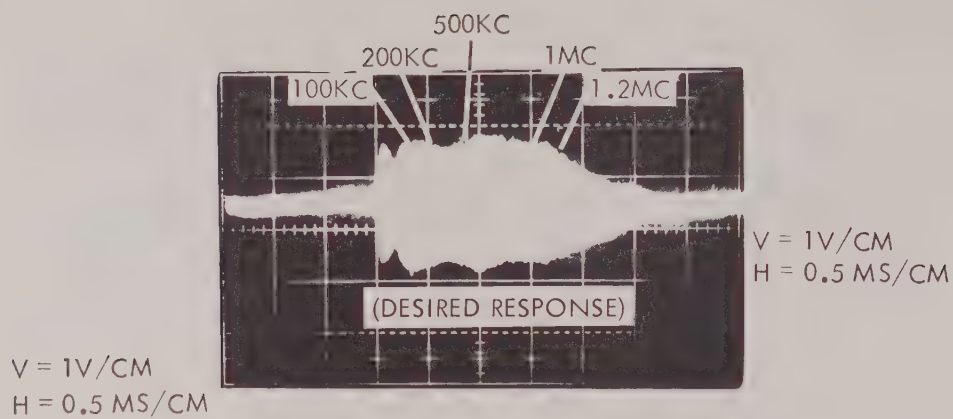
BASIC SYMPTOMS	OTHER INDICATIONS	POSSIBLE CAUSE	LOCALIZATION AND/OR CORRECTIVE PROCEDURE
Excessive wow and flutter. (continued)	And capstan motor is not in synchronization	Motor drive belt rubbing on belt change arms Excessive load on capstans Puck arms not properly adjusted Capstan servo not aligned	Adjust drive belt or replace defective belt change arms. Adjust puck arms (para 4.12). Align capstan servo. See para 4.7.
In SEQ mode, system fails to reverse at end of usable tape when recording and selector mode switch is set at 2 or 4	But system sequences when MAN ADV switch is pressed	Defective or misaligned end-of-usable tape photocell or light	Observe that end-of-tape light is on when tape is moving in corresponding direction. Excite photocells with flashlight to make system sequence. If system sequences when photocell is excited, sensor alignment or service is indicated. See para 4.10.

4.6.1 Record/Reproduce Waveform Analysis

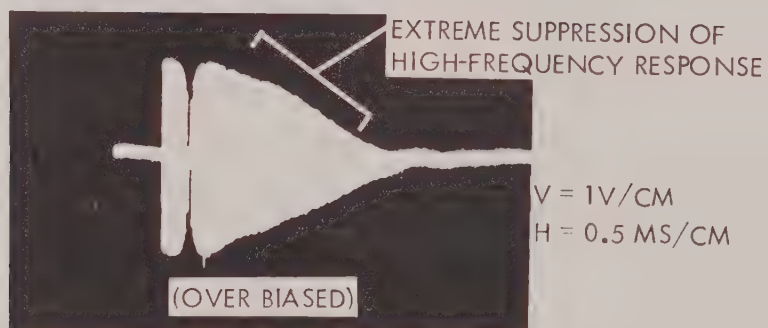
Waveforms illustrated in Figure 4-5 are oscilloscope displays photographed while operating at 120 ips. These waveforms were recorded after the record and reproduce electronics had been properly aligned. To provide the desired display waveforms, a sweep generator and a squarewave generator was used to produce the record input signal. The reproduced output of the record channel was displayed on an oscilloscope and photographed.

NOTE

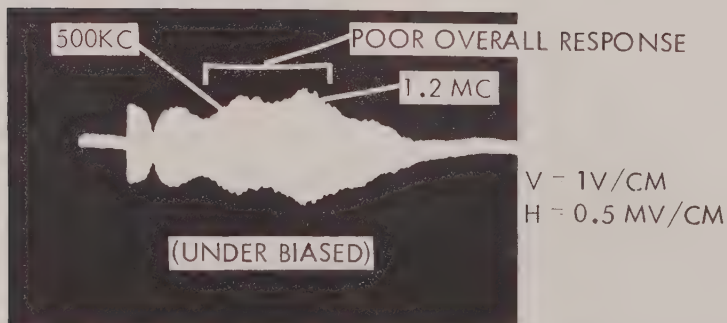
Refer to Section 3 for operational adjustment procedures.



A

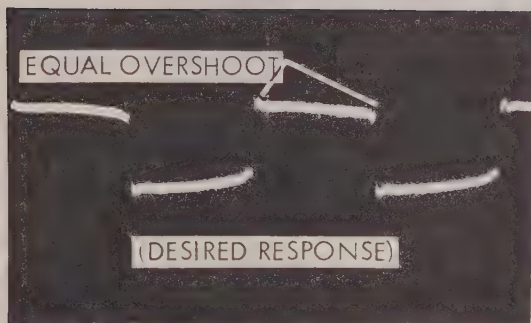


B



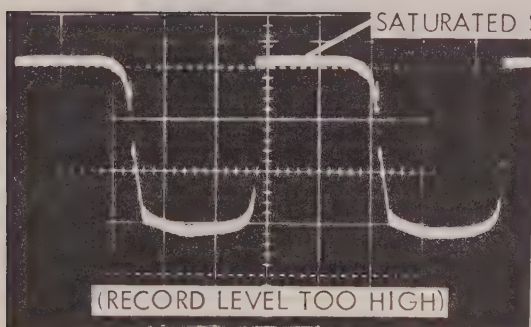
C

FIGURE 4-5. RECORD/REPRODUCE RESPONSE WAVEFORMS



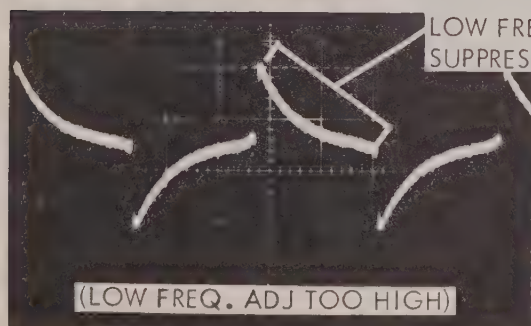
$V = 1V/CM$
 $H = 0.5 MS/CM$

D



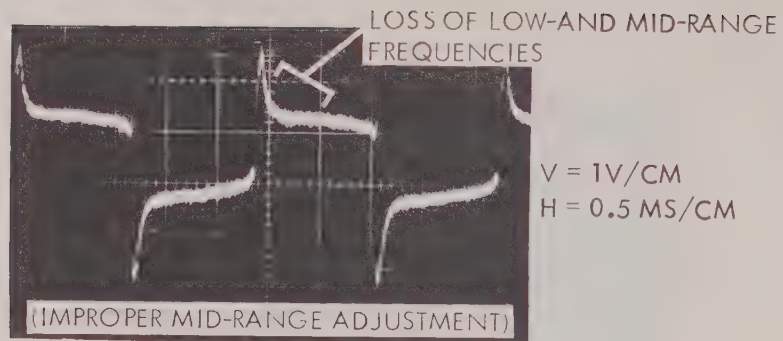
$V = 2V/CM$
 $H = 0.5 MS/CM$

E

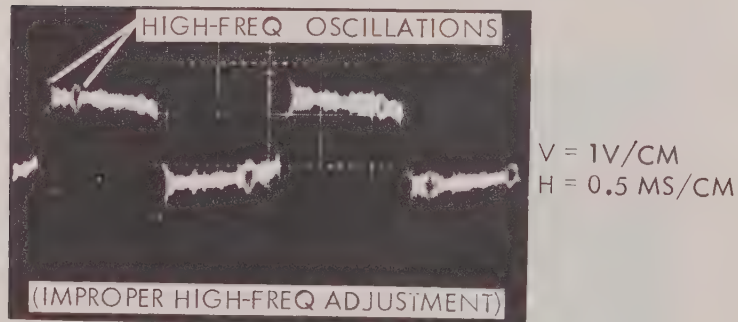


$V = 1V/CM$
 $H = 0.5 MS/CM$

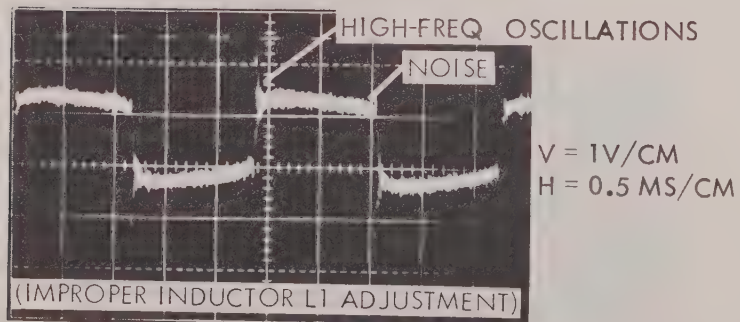
F



G



H



J

The sweep response illustrated in "A" of Figure 4-5 shows a desirable passband response for a 1.2 MC upper bandedge machine. Note the almost flat response between 400 cps and the 1.2 MC markers. The sweep frequency range is far above the required response. When properly adjusted, the reproduce bandpass will rolloff 3 db from reference level at the upper bandedge frequency.

The sweep response illustrated in "B" of Figure 4-5 shows the effect of too much record bias signal which causes a loss in high-frequency response.

Figure 4-5C shows the effects of under-biasing of the record signal. The general response curve is far from the desired flat response with a loss of "lows" more so than the "highs".

In "D" of Figure 4-5, a well adjusted record and reproduce circuit is illustrated by using a 10-KC squarewave test signal. Note the almost equal overshoot at the ends of each half cycle. This indicates proper phase and high-frequency adjustment.

Figure 4-5E shows what happens when the RECORD LEVEL adjustments on the data record amplifier is improperly adjusted to the high side. The amplifier is driven into saturation causing serious amplitude distortion.

In "F" of Figure 4-5, the squarewave shows the effects of over adjustment of the equalizer LOW frequency adjustment, R1. Almost all of the low-frequency response is lost.

In "G" of Figure 4-5, the effects of an improperly adjusted midrange equalizer adjustment (R2) is shown. Again, the low frequency response is poor.

Figure 4-5H shows high frequency ringing and oscillations due to improper adjustments of the equalizer HIGH adjustment, R3. A similar effect will be observed if the PHASE adjustment control R4 is improperly set.

If the resonant frequency of an equalizer is not correct as it should be, the results will be as illustrated in Figure 4-5J. Note the high amplitude of ringing at the leading edge and increased noise level with high frequency oscillations throughout the signal.

4.7 CAPSTAN SERVO ALIGNMENT PROCEDURES

Capstan alignment procedures are performed as often as required to ensure accurate and stable capstan operation. These procedures should be performed each time maintenance is performed on any of the capstan servo boards and whenever a board is replaced. The procedures provide a method for correctly setting the signal amplitude and waveforms and time relationship to obtain proper servo control. Figure 4-6 illustrates the location of the test points and adjustments. Perform alignment procedures as follows:

NOTE

Use the card extender for the capstan servo card.
(See Figure 4-6.)

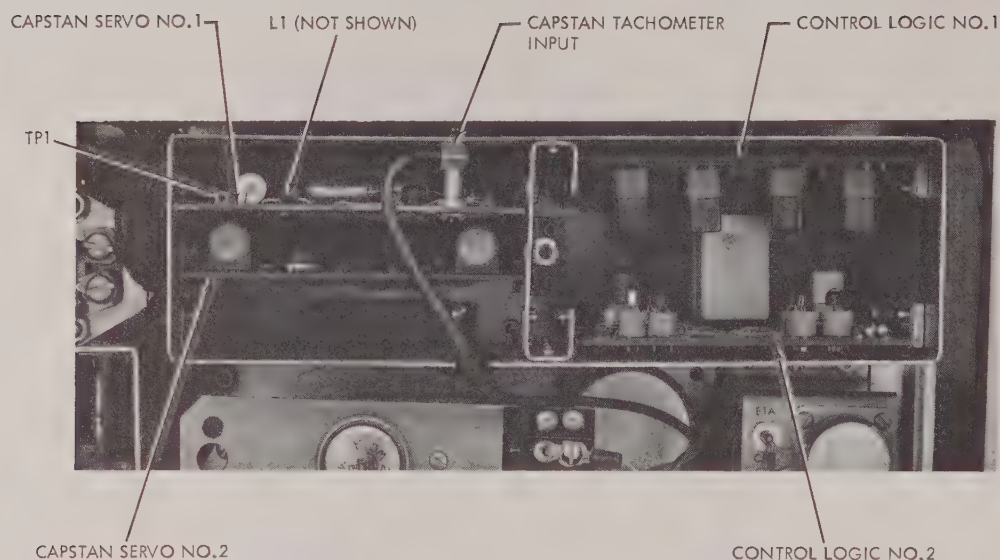


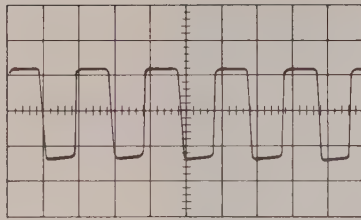
FIGURE 4-6. CAPSTAN SERVO ASSEMBLY

- a. Prepare the recorder for normal operation. Either load the tape transport with tape or mask the tape-break and end-of-tape sensor lamps to prevent automatic disabling of P-5114B power.
- b. Connect the oscilloscope X10 probe to TP1 of the capstan servo No. 1 card with the ground lead connected to chassis ground (refer to Figure 4-6).
- c. Adjust inductor L1 of the capstan servo No. 1 card for optimum square wave output as indicated on the oscilloscope. (See Figure 4-7A.)

4.7.1 Stabilizing Network Adjustment

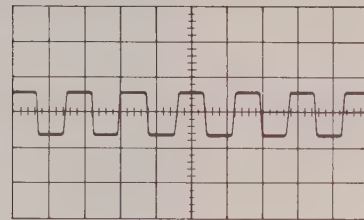
Adjustments of capstan stabilizing networks (damping pots) consist of adjusting potentiometers R14 and R18 (see Figure 4-6) for minimum tape flutter. A flutter bridge and oscilloscope are required to perform these adjustments. The recorder and test equipment setup is shown in Figure 4-8.

Once the equipment is properly connected in the test setup, the P-5114B is operated at 60 ips and potentiometers R14 and R18 adjusted to obtain a minimum flutter indication on the oscilloscope. If a flutter bridge is not available, use only the oscilloscope connected to TP3 with ground lead connected to chassis ground. Adjust potentiometers R14 and R18 to obtain the most stable oscilloscope display. (See Figure 4-7B.)



$V = 5V/CM$
 $H = 20 \mu SEC/CM$

A



$V = 1V/CM$
 $H = 50 \mu SEC/CM$

B

FIGURE 4-7. CAPSTAN SERVO WAVEFORMS

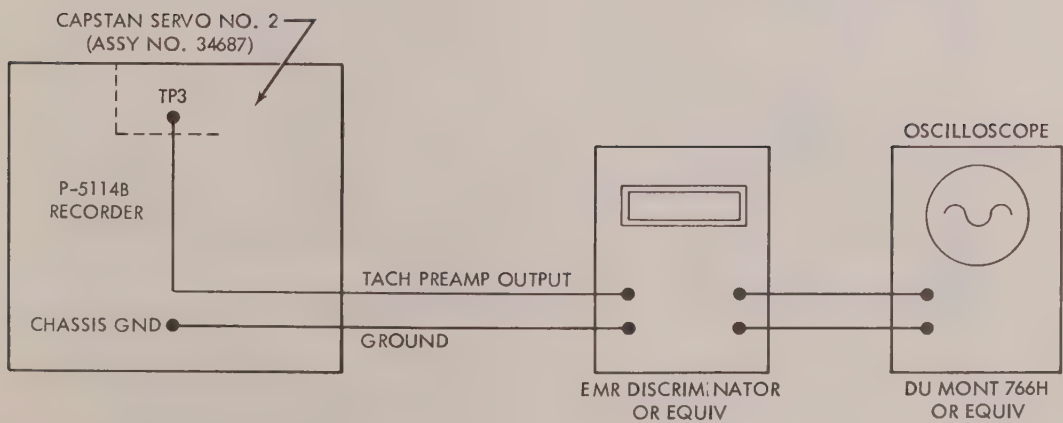


FIGURE 4-8. CAPSTAN STABILIZING NETWORK TEST SETUP

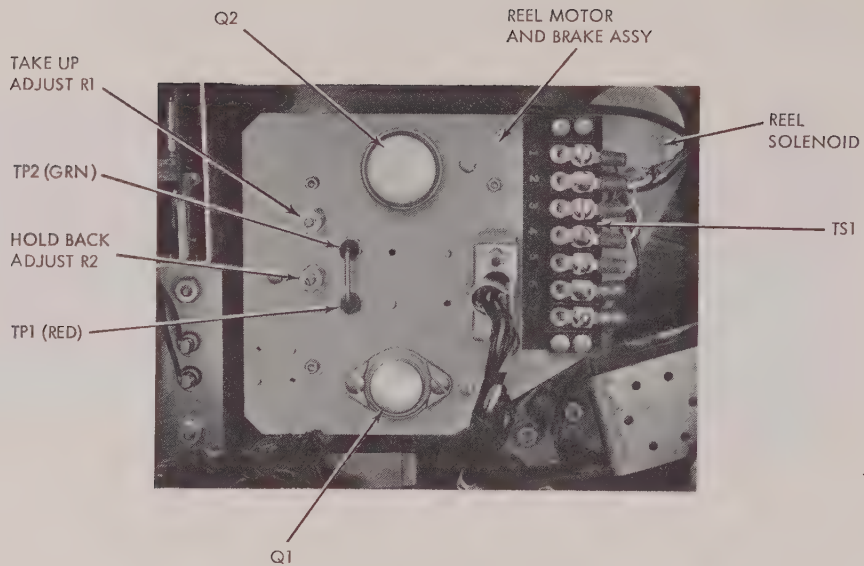


FIGURE 4-9. REEL MOTOR COVER ASSEMBLY

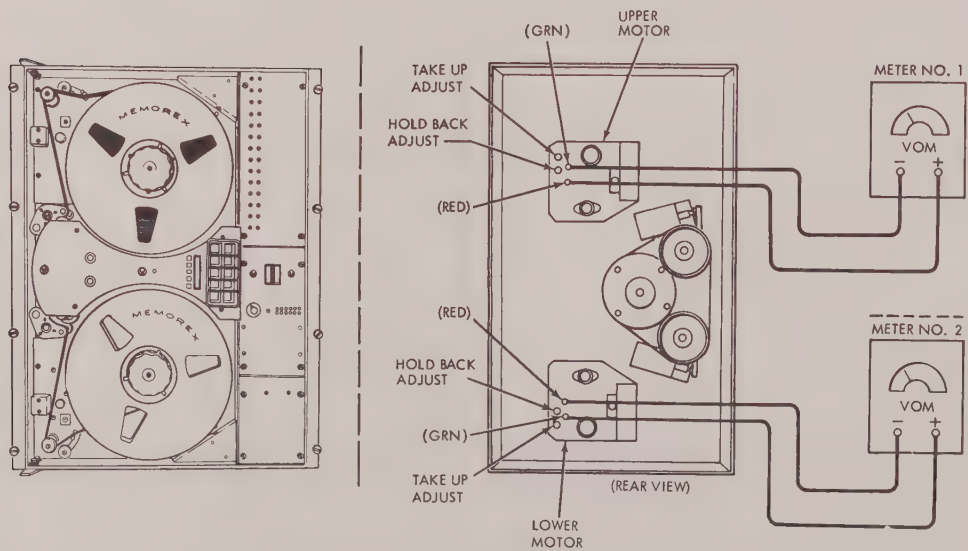


FIGURE 4-10. REEL SERVO ADJUSTMENT TEST SETUP

The reel servo system may require adjustment following parts replacement. The adjustments consist of setting the takeup and holdback adjusting potentiometers for proper holdback motor current. Motor current levels are established by removing jumper between TP1 and TP2 and inserting an ammeter. Two test points conveniently located on the motor cover are provided for this purpose. The test points and the holdback and takeup potentiometers are shown in Figure 4-9. Test equipment required to perform the entire reel servo adjustment procedures include a small screwdriver and a volt-ohmmeter (Simpson 270 or equivalent).

In preparation for the adjustments, apply normal power to the recorder. Load the machine with two 10-1/2-inch reels as though performing a normal record function, thread tape, and set speed to 7.5 ips. Connect the volt-ohmmeter (VOM) as shown in Figure 4-10B, in the meter No. 1 position, upper motor. Proceed as follows:

- a. Set the meter to the 10 amperes dc scale. Start the recorder in the REV (reverse) mode while simultaneously observing the meter indication. The meter should indicate greater than 6.5 amperes for the first four seconds (this indicates full torque start current in REV mode). This indication should decrease to 3 amperes after a 4-second interval.
- b. After the 4-second interval, adjust take-up potentiometer R1 to produce a 3-ampere meter indication.
- c. Remove the VOM from TP1 and TP2 of the upper motor, replace jumper, and connect the leads to the lower motor in the position shown for meter No. 2 (Figure 4-10B).
- d. With the system still in the REV mode, adjust the holdback potentiometer on the lower motor cover to obtain a dc indication of 0.7 amperes on the VOM.
- e. Press the STOP switch, and then the FWD switch, while observing the VOM indication (meter remaining in the No. 2 position). The meter should indicate greater than 6.5 amperes for the first four seconds (this indication represents full torque start current in the FWD mode). This indication should decrease to 3 amperes after the 4-second interval.
- f. Repeat Step b adjusting the takeup potentiometer on the lower assembly.
- g. Repeat Steps c and d, except the meter is moved to the meter No. 1 position and the holdback potentiometer on the upper motor is adjusted to obtain a 0.75-ampere VOM indication.

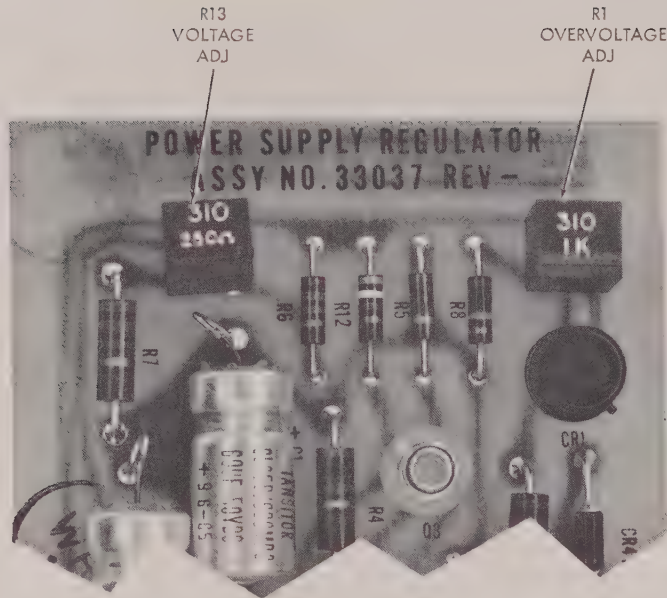


FIGURE 4-11. VOLTAGE REGULATOR ADJUSTMENT

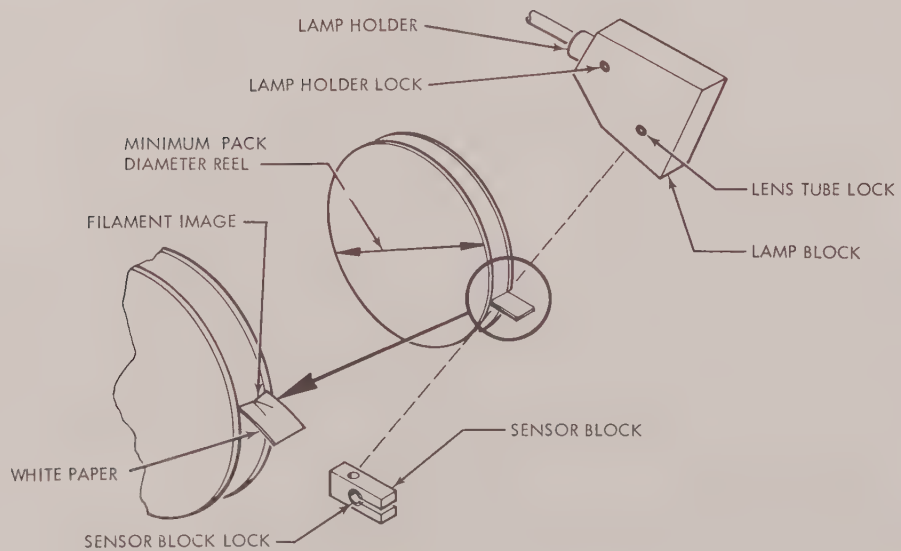


FIGURE 4-12. END-OF-TAPE SENSOR ADJUSTMENT

4.9 POWER SUPPLY REGULATOR ADJUSTMENT

Two adjustment controls (Figure 4-11) are provided on the +22-volt regulator board and are easily adjusted using only a dc voltmeter calibrated within ± 2 percent. First, connect the dc voltmeter between pin P on the remote control connector (+22 volts regulated) and ground. Rotate overvoltage adjust R1 fully counterclockwise, then rotate voltage adjust R13 for a 24-volt indication. Turn R1 clockwise until the regulated output drops out. The overvoltage circuit is now set to cutout at 24 volts. Turn off ac power and rotate R13 maximum clockwise. Turn ac power on. Adjust R13 for 22.0 volts (normal regulation level) on dc voltmeter.

4.10 END-OF-TAPE SENSOR ADJUSTMENT

The method of adjusting the end-of-tape sensor is shown in Figure 4-12. For fine adjustment of the length of tape remaining, it is only necessary to move the sensor block. This is done by first removing the tape reels and the control cover to gain access to the sensor block. Then, the reel is replaced with approximately ten turns of tape wound onto the core. This is the usual number of remaining turns desired at end-of-tape. Place masking tape over the tape break sensors to disable this function and energize the transport. The end-of-tape setting is then made simply by sliding the sensor block slightly toward the magnetic heads until the light beam is eclipsed and the STOP indicator lights.

If this adjustment cannot be made, the lamp position and beam focus must be adjusted. To do this, a piece of white paper is placed tangent to the tape pack as shown to observe the projected image of the lamp filament. Then, the lamp holder must be rotated to place the transverse portion of the lamp image across the edge of the card, parallel to the tape. If the image is not sharp, focusing may be required. In this event, loosen the clamping screw and slide the lens tube as required to obtain a sharp image.

CAUTION

The lens tube is a sliding fit. If the transport baseplate is in a vertical plane, the lens tube will drop out of the holder when the clamping screw is loosened.

4.11 REEL BRAKE ADJUSTMENT

Reel brake adjustment procedures are performed as often as required to compensate for band wear. The adjustment consists of tightening the appropriate brake band (or bands) to create more or less friction on the reel drum.

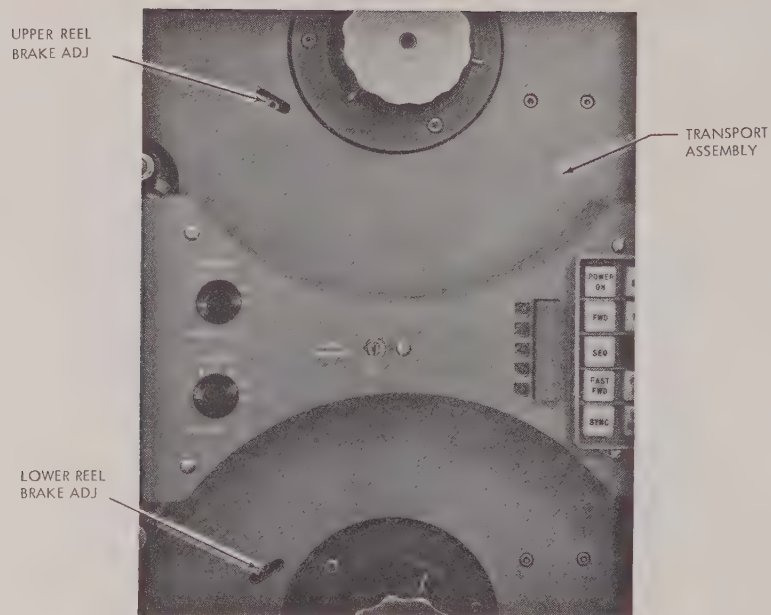


FIGURE 4-13. REEL BRAKE ADJUSTMENT

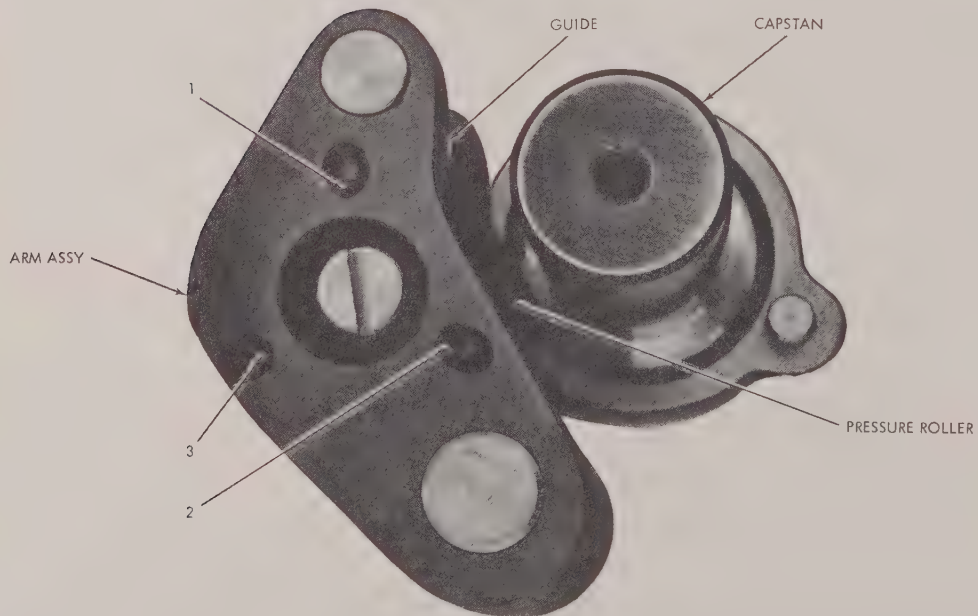


FIGURE 4-14. ROLLER AZIMUTH ADJUSTMENT

To make the adjustments, remove the reels and insert a screwdriver into the slot provided in the transport plate as illustrated in Figure 4-13. Loosen the screw and slide the band to the left until the band engages the drum and then retighten the screw. To check the adjustment setting, load the transport with a full reel of tape and operate the recorder in the forward mode; press the STOP switch and observe the tape. If a loop occurs, readjust the upper brakes. Operate the recorder in the reverse direction and press STOP switch. Again observe the tape for tape loops. If a loop occurs, readjust the lower reel brake. Repeat this procedure as required to prevent tape loops when the transport is stopped from forward and/or reverse operation.

4.12 PRESSURE ROLLER (PUCKS) ADJUSTMENT

The pressure rollers have been properly set in azimuth and for pressure at the factory. Readjustment may be necessary after a long period of equipment operation due to normal roller wear. If either roller or arm assembly is replaced, the adjustment procedures should be performed.

Each roller and arm assembly is adjusted in azimuth to achieve proper tape tracking over the guides and rollers. The adjustment consists of aligning the roller within the arm assembly to a position parallel to the capstan shaft. This will provide an even distribution of roller pressure across the width of the tape. Azimuth misalignment will often cause tape to track too high or too low over the guides, which in turn, causes damage to the tape edge. Three set screws, illustrated in Figure 4-14 are provided in the arm assembly for making roller azimuth alignment adjustment. The set screws are located in the top portion of the assembly providing easy access from the front of the recorder.

Pressure adjustment of the rollers, consisting of setting the pressure exerted by each roller (against the tape and capstan shaft), is also provided. This adjustment is made to ensure proper tape movement over the heads. Improper roller pressure may cause loss of signal due to low pressure or capstan motor overloading because of high pressure. Figure 4-15 shows the location of roller pressure adjustment screws. Roller pressure is controlled by setting of the arm clamping screw and the actuator adjustment screw. The actuator adjustment screw is used to set the amount of actuator arm travel and the arm clamping screw is used to adjust the roller arm position in relationship to the actuator arm.

In order to gain access to the actuator adjustment screws, the access panels (rear and left side) of the recorder must be removed. It is sometimes convenient to remove the entire precision plate assembly and place the assembly on a work bench.

Use the following procedures to adjust the roller azimuth and pressure.

4.12.1 Roller Azimuth Adjustment

- a. Remove the front cover assembly from the transport and thread a test tape pack into the system. Apply normal power to the recorder and operate the transport at 60 ips.

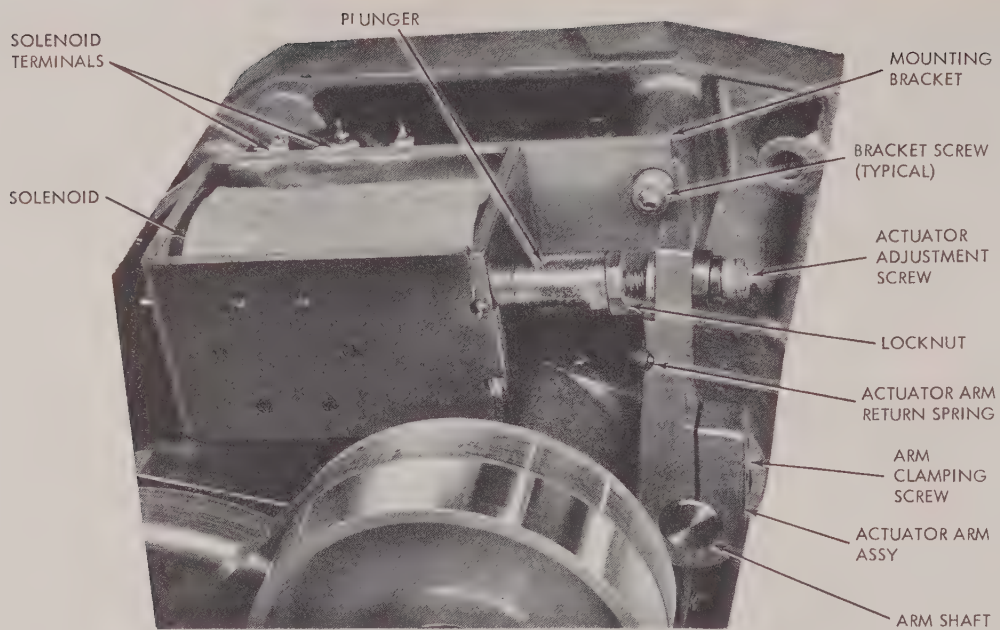


FIGURE 4-15. ACTUATOR ADJUSTMENT

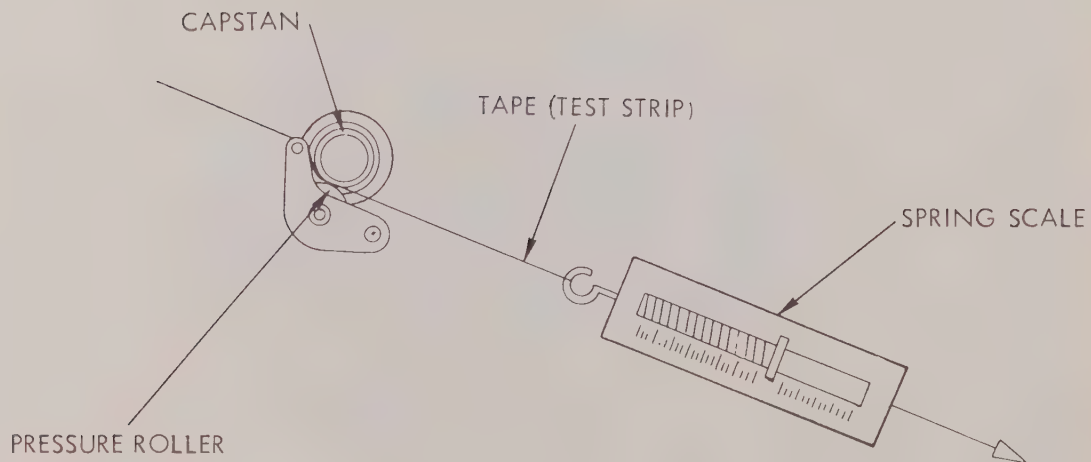


FIGURE 4-16. ROLLER PRESSURE TEST METHOD

- b. Closely observe the tape tracking position as it travels over the rollers and heads. If the tape appears to be moving upward or downward on a roller, insert an Allen wrench into the slot provided for set screw No. 1 (Figure 4-14). Make only a very slight adjustment; note the direction in which the adjustment is made.
- c. Again, observe the tape path over the rollers. If the tape moves against the edge of the roller or is curling, return adjustment screw No. 1 to its original position and adjust screw No. 2. Repeat this process until the roller position is found which will permit the tape to track properly. Adjust set screws No. 1, 2 or 3 as required to achieve the desired effects.

4.12.2 Roller Pressure Adjustment

A 24-volt battery (or dc power supply) and a 0 (zero) to 10-pound spring scale are used to make the following adjustments. Refer to Figure 4-15 for location of adjustments.

- a. Remove all external power connections to the recorder system. Remove the reels and tape from the transport. Remove the rear cover assembly and disconnect plug P702 of the precision plate from the capstan servo power amplifier.
- b. Loosen arm clamping screw and place the actuator arm approximately at a right angle to the solenoid. Press the pressure roller against the capstan shaft and tighten the arm clamping screw.
- c. Turn the stop adjustment so that there is $1/8$ to $3/16$ inch between the pressure roller and the capstan shaft when the arm is released (observe from front of recorder).
- d. Attach a 24-volt, 1 amp, dc power supply between solenoid terminals E4 and E5 (see Figure 4-15). Polarity is important. Positive lead to E5 and negative lead to E4.
- e. Loosen the actuator locknut. With the actuator adjustment screw engaged a few turns into the plunger, energize the solenoid with 24-volts. Tighten the actuator adjustment screw (clockwise) until the plunger just begins to pull out of the solenoid. Back off the screw $1/2$ turn from this position. If the screw bottoms out before the plunger begins to pull out, back out the screw, loosen solenoid mounting screws, and slide the solenoid back on its mounting bracket. Repeat adjustment.
- f. A test of pressure roller engagement force, which is used to determine how much tape tension the pressure roller will maintain without slipping is shown in Figure 4-16. Attach a two-foot piece of recording tape to a 0 to 10 pound spring scale. Thread the tape through the capstan. Hold the capstan

to prevent its turning, energize solenoid, and pull slowly on the spring scale. The scale should be pulled in the direction that the tape would normally follow. The pressure roller should not begin to turn (slip) until four pounds of tension is applied to the tape as indicated by the spring scale.

- g. Reduce the Power Supply to 22V and turn the adjustment screw as required so that test tape just begins to slip when 4 pounds of pull is applied. Remove power and pressure rollers must separate from capstans. Lock the actuator adjustment screw with locknut.
- h. Repeat steps b through g for the other pressure roller, applying solenoid voltage between solenoid terminals E6 and E7. Positive lead to E6 and negative lead to E7.

SECTION 5

SCHEMATICS AND WIRING DIAGRAMS

5.1 INTRODUCTION

This section contains schematics and wiring diagrams for the P-5114B Portable Magnetic Tape Recorder/Reproducer System. Diagrams are not included for the welded, encapsulated modules, which are non-repairable.

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The following list comprises the drawings for the P-5114B.

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CONNECTOR J1101

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
1	22 Awg	Black	10	J1101	A	34672	E71	
2	22 Awg	Black	10	J1101	B	34672	E74	
3	22 Awg	Black	10	J1101	C	34672	E69	
4	22 Awg	Black	10	J1101	D	34672	E68	
5	22 Awg	Black	30	J1101	E	P1103	U	
6	22 Awg	Black	10	J1101	F	34672	E65	
7	22 Awg	Black	30	J1101	H	P1103	J	
8	22 Awg	Black	12	J1101	J	34672	E34	
9	22 Awg	Black	12	J1101	K	34672	E38	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
SHEET 1

CONNECTOR J1102

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
10	RG/178B	Coax	30	J1102	1	P1103	H	Shld. to Pin 7
11	22 Awg	Black		J1102	2	J1102	5	Jpr. to Pin 5
12	22 Awg	Black	30	J1102	3	P1103	T	
13	22 Awg	Black	30	J1102	4	P1103	S	
11	22 Awg	Black		J1102	5	J1102	2	Jpr. from Pin 2
14	22 Awg	Black	8	J1102	6	34672	E71	
15	22 Awg	Black	30	J1102	7	P1103	J	Shld. from Pin 1
16	22 Awg	Black	8	J1102	8	34672	E69	
17	22 Awg	Black	30	J1102	9	P1103	B	Shld. from Pin 15
				J1102	10	N/C		
18	22 Awg	Black		J1102	11	J1102	14	Jpr. to Pin 14
19	22 Awg	Black	30	J1102	12	P1103	P	
20	22 Awg	Black	30	J1102	13	P1103	R	
18	22 Awg	Black		J1102	14	J1102	11	Jpr. from Pin 11
21	RG/178B	Coax	30	J1102	15	P1103	A	Shld. to Pin 9

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 2)

SERIES SEQUENCING MOTHERBOARD 34672

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
101	RG/178B	Coax	28	34672	E 1	34657	E54	Shld. Open
99	RG/178B	Coax	26	34672	E 2	34657	E55	Shld. Open
87	RG/178B	Coax	25	34672	E 3	34657	E59	Shld. Open
39	22 Awg	Black		34672	E 4	34672	E37	Jumper
42	22 Awg	Black		34672	E 5	34672	E36	Jumper
71	RG/178B	Coax	25	34672	E 6	34657	E57	Shld. Open
69	RG/178B	Coax	30	34672	E 7	J7	Center	Shld. Open
67	RG/178B	Coax	25	34672	E 8	34657	E53	Shld. Open
65	RG/178B	Coax	30	34672	E 9	J6	Center	Shld. Open
54	RG/178B	Coax	30	34672	E 10	J3	Center	Shld. Open
53	22 Awg	Black		34672	E 10	34672	E30	Jumper
51	RG/178B	Coax	22	34672	E 11	34657	E58	Shld. Open
36	22 Awg	Black		34672	E 12	34672	E47	Jumper
29	22 Awg	Black	25	34672	E 13	34657	E2	
28	22 Awg	Black	25	34672	E 14	34657	E3	
98	22 Awg	Black	25	34672	E 15	34657	E4	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST

(SHEET 3)

SERIES SEQUENCING MOTHERBOARD 34672
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
96	RG/178B	Coax	25	34672	E 16	34657	E56	Shld. Open
76	22 Awg	Buss		34672	E 17	34672	E44	Jumper
63	RG/178B	Coax	30	34672	E 18	J5	Center	Shld. Open
49	RG/178B	Coax	30	34672	E 19	J8	Center	Shld. Open
47	RG/178B	Coax	20	34672	E 20	34657	E60	Shld. Open
27	22 Awg	Black		34672	E 21	34657	E1	
94	RG/178B	Coax	20	34672	E 22	34657	E61	Shld. Open
85	RG/178B	Coax	20	34672	E 23	34657	E62	
84	22 Awg	Black	30	34672	E 24	P1103	W	
80	22 Awg	Black	30	34672	E 25	P1103	X	
79	22 Awg	Black	30	34672	E 26	P1103	Y	
78	22 Awg	Black	30	34672	E 27	P1103	Z	
77	22 Awg	Black	20	34672	E 28	34657	E7	
61	RG/178B	Coax	20	34672	E 29	34657	E63	
53	22 Awg	Black		34672	E 30	34672	E10	Jumper
60	22 Awg	Black	30	34672	E 31	P1103	c	
59	22 Awg	Black	30	34672	E 32	P1103	b	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 4)

SERIES SEQUENCING MOTHERBOARD 34672
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
58	22 Awg	Black	30	34672	E 33	P1103	a	
8	22 Awg	Black	12	34672	E 34	J1101	U	
45	RG/178B	Coax	20	34672	E 35	34657	E65	
43	RG/178B	Coax		34672	E 36	J1	Center	Shld. Open
42	22 Awg	Black		34672	E 36	34672	E5	Jumper
40	RG/178B	Coax		34672	E 37	J2	Center	Shld. Open
39	22 Awg	Black		34672	E 37	34672	E4	Jumper
9	22 Awg	Black	12	34672	E 38	J1101	K	
25	RG/178B	Coax	35	34672	E 39	J14	Center	Shld. Open
93	22 Awg	Black	20	34672	E 40	34657	E5	
92	22 Awg	Black	20	34672	E 41	34657	E6	
90	RG/178B	Coax	30	34672	E 42	J9	Center	Shld. Open
82	RG/178B	Coax	30	34672	E 43	J10	Center	Shld. Open
76	22 Awg	Buss		34672	E 44	34672	E17	Jumper
22	22 Awg	Black		34672	E 44	34672	E71	Jumper
74	RG/178B	Coax	30	34672	E 45	J11	Center	Shld. Open

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 5)

SERIES SEQUENCING MOTHERBOARD 34672
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
56	RG/178B	Coax		34672	E 46	J13	Center	Shld. Open
37	RG/178B	Coax	30	34672	E 47	J4	Center	Shld. Open
36	22 Awg	Black		34672	E 47	34672	E12	Jumper
34	RG/178B	Coax	20	34672	E 48	34657	E64	Shld. Open
32	RG/178B	Coax	30	34672	E 49	J12	Center	Shld. Open
30	RG/178B	Coax	20	34672	E 50	34657	E66	Shld. Open
					E 51	N/C		
					E 52	N/C		
					E 53	N/C		
					E 54	N/C		
					E 55	N/C		
					E 56	N/C		
					E 57	N/C		
					E 58	N/C		
					E 59	N/C		
					E 60	N/C		

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 6)

SERIES SEQUENCING MOTHERBOARD 34672
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
81	22 Awg	Black	30	34672	E 61	N/C		
73	22 Awg	Black	30	34672	E 62	P1103	d	
89	22 Awg	Black	30	34672	E 63	P1103	e	
6	22 Awg	Black	10	34672	E 64	P1103	f	
					E 65	J1101	F	
				34672	E 66			
				34672	E 67	N/C		
4	22 Awg	Black	10	34672	E 68	J1101	D	
3	22 Awg	Black	10	34672	E 69	J1102	C	
16	22 Awg	Black	8	34672	E 69	J1102	8	
					E 70	N/C		
22	22 Awg	Buss		34672	E 71	34672	E44	Jumper
14	22 Awg	Black	10	34672	E 71	J1102	6	
1	22 Awg	Black	10	34672	E 71	J1101	A	
24	22 Awg	Black	30	34672	E 72	P1103	h	
23	22 Awg	Black	30	34672	E 73	P1103	V	
2	22 Awg	Black	10	34672	E 74	J1101	B	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 7)

CONNECTOR P1103

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
21	RG/178B	Coax		P1103	A	J1102	15	Shld. to B
17		Shld.		P1103	B	J1102	9	
107	RG/178B	Coax	30	P1103	C	34657	E69	Shld. to D
108		Shld.		P1103	D	34657	E70	
103	RG/178B	Coax	25	P1103	E	P1104	Center	Shld. to F
104		Shld.		P1103	F	P1104	Shell	
10	RG/178B	Coax		P1103	H	J1102	1	Shld. to J
15		Shld.		P1103	J	J1102	7	
109	RG/178B	Coax	30	P1103	K	34657	E68	Shld. to L
110		Shld.		P1103	L	34657	E67	
105	RG/178B	Coax	25	P1103	M	P1105	Center	Shld. to N
106		Shld.		P1103	N	P1105	Shell	
19	22 Awg	Black		P1103	P	J1102	12	
20	22 Awg	Black		P1103	R	J1102	13	
13	22 Awg	Black		P1103	S	J1102	4	
12	22 Awg	Black		P1103	T	J1102	3	
5	22 Awg	Black		P1103	U	J1101	E	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 8)

CONNECTOR P1103

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
23	22 Awg	Black		P1103	V	34672	E73	
84	22 Awg	Black		P1103	W	34672	E24	
80	22 Awg	Black		P1103	X	34672	E25	
79	22 Awg	Black		P1103	Y	34672	E26	
78	22 Awg	Black		P1103	Z	34672	E27	
58	22 Awg	Black		P1103	a	34672	E33	
59	22 Awg	Black		P1103	b	34672	E32	
60	22 Awg	Black		P1103	c	34672	E31	
81	22 Awg	Black		P1103	d	34672	E62	
73	22 Awg	Black		P1103	e	34672	E63	
89	22 Awg	Black		P1103	f	34672	E64	
24	22 Awg	Black		P1103	h	34672	E72	
7	22 Awg	Black		P1103	i	J1101	H	
					k	N/C		
					l	N/C		
					m	N/C		
					n	N/C		

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 9)

CONNECTOR P1103
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
					p	N/C		
					r	N/C		
					s	N/C		
					t	N/C		
					u	N/C		
					v	N/C		
					w	N/C		
					x	N/C		

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 10)

CONNECTOR J1003

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
111	RG/178B	Coax	15	J1003	1	34657	E25	
112	22 Awg	Shield		J1003	Shell	34657	E11	
113	RG/178B	Coax	1	J1003	2	34657	E27	
114	22 Awg	Shield		J1003	Shell	34657	E13	
115	RG/178B	Coax	15	J1003	3	34657	E29	
116	22 Awg	Shield		J1003	Shell	34657	E15	
117	RG/178B	Coax	10	J1003	4	34657	E31	
118	22 Awg	Shield		J1003	Shell	34657	E17	
119	RG/178B	Coax	10	J1003	5	34657	E33	
120	22 Awg	Shield		J1003	Shell	34657	E19	
121	RG/178B	Coax	8	J1003	6	34657	E35	
122	22 Awg	Shield		J1003	Shell	34657	E21	
123	RG/178B	Coax	7	J1003	7	34657	E37	
124	22 Awg	Shield		J1003	Shell	34657	E23	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 11)

CONNECTOR J1002

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
125	RG/178B	Coax	15	J1002	1	34657	E24	
126	22 Awg	Shield		J1002	Shell	34657	E10	
127	RG/178B	Coax	13	J1002	2	34657	E26	
128	22 Awg	Shield		J1002	Shell	34657	E12	
129	RG/178B	Coax	12	J1002	3	34657	E28	
130	22 Awg	Shield		J1002	Shell	34657	E14	
131	RG/178B	Coax	10	J1002	4	34657	E30	
132	22 Awg	Shield		J1002	Shell	34657	E16	
133	RG/178B	Coax	9	J1002	5	34657	E32	
134	22 Awg	Shield		J1002	Shell	34657	E18	
135	RG/178B	Coax	8	J1002	6	34657	E34	
136	22 Awg	Shield		J1002	Shell	34657	E20	
137	RG/178B	Coax	7	J1002	7	34657	E36	
138	22 Awg	Shield		J1002	Shell	34657	E22	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 12)

B.N.C. CONNECTORS J1 THRU J14

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
43	RG/178B	Coax		J1	Center	34672	E36	
40	RG/178B	Coax		J2	Center	34672	E37	
54	RG/178B	Coax		J3	Center	34672	E10	
37	RG/178B	Coax		J4	Center	34672	E47	
63	RG/178B	Coax		J5	Center	34672	E18	
65	RG/178B	Coax		J6	Center	34672	E9	
69	RG/178B	Coax		J7	Center	34672	E7	
49	RG/178B	Coax		J8	Center	34672	E19	
90	RG/178B	Coax		J9	Center	34672	E42	
82	RG/178B	Coax		J10	Center	34672	E43	
74	RG/178B	Coax		J11	Center	34672	E45	
32	RG/178B	Coax		J12	Center	34672	E49	
56	RG/178B	Coax		J13	Center	34672	E46	
25	RG/178B	Coax		J14	Center	34672	E39	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 13)

RECORD MOTHERBOARD 34657

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
27	22 Awg	Black	30	34657	E 1	34672	E21	
28	22 Awg	Black	30	34657	E 2	34672	E13	
29	22 Awg	Black	30	34657	E 3	34672	E14	
98	22 Awg	Black	30	34657	E 4	34672	E15	
93	22 Awg	Black	30	34657	E 5	34672	E40	
92	22 Awg	Black	30	34657	E 6	34672	E41	
77	22 Awg	Black	30	34657	E 7	34672	E28	
154	22 Awg	Black	12	34657	E 8	N/C		
126	22 Awg	Black		34657	E 9	C/O	17	
68	22 Awg	Black		34657	E 10			Shld. from E24
112	22 Awg	Black		34657	E 10			Shld. from E53
102	22 Awg	Black		34657	E 11			Shld. from E25
128	22 Awg	Black		34657	E 11			Shld. from E54
100	22 Awg	Black		34657	E 12			Shld. from E26
114	22 Awg	Black		34657	E 12			Shld. from E55
97	22 Awg	Black		34657	E 13			Shld. from E27
				34657	E 13			Shld. from E56

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST

(SHEET 14)

RECORD MOTHERBOARD 34657
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
130	22 Awg	Black		34657	E 14			Shld. from E28
72	22 Awg	Black		34657	E 14			Shld. from E57
116	22 Awg	Black		34657	E 15			Shld. from E29
52	22 Awg	Black		34657	E 15			Shld. from E58
88	22 Awg	Black		34657	E 16			Shld. from E59
132	22 Awg	Black		34657	E 16			Shld. from E30
118	22 Awg	Black		34657	E 17			Shld. from E31
48	22 Awg	Black		34657	E 17			Shld. from E60
134	22 Awg	Black		34657	E 18			Shld. from E32
95	22 Awg	Black		34657	E 18			Shld. from E61
86	22 Awg	Black		34657	E 19			Shld. from E62
120	22 Awg	Black		34657	E 19			Shld. from E33
136	22 Awg	Black		34657	E 20			Shld. from E34
62	22 Awg	Black		34657	E 20			Shld. from E63
122	22 Awg	Black		34657	E 21			Shld. from E35
35	22 Awg	Black		34657	E 21			Shld. from E64

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 15)

RECORD MOTHERBOARD 34657
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
138	22 Awg	Black		34657	E 22			Shld. from E36
46	22 Awg	Black		34657	E 22			Shld. from E65
124	22 Awg	Black		34657	E 23			Shld. from E23
31	22 Awg	Black		34657	E 23			Shld. from E66
125	RG/178B	Coax	16	34657	E 24	J1002	1	Shld. to E10
111	RG/178B	Coax	16	34657	E 25	J1003	1	Shld. to E11
127	RG/178B	Coax	16	34657	E 26	J1002	2	Shld. to E12
113	RG/178B	Coax	16	34657	E 27	J1003	2	Shld. to E13
129	RG/178B	Coax	16	34657	E 28	J1002	3	Shld. to E14
115	RG/178B	Coax	16	34657	E 29	J1003	3	Shld. to E15
131	RG/178B	Coax	16	34657	E 30	J1002	4	Shld. to E16
117	RG/178B	Coax	16	34657	E 31	J1003	4	Shld. to E17
133	RG/178B	Coax	16	34657	E 32	J1002	5	Shld. to E18
119	RG/178B	Coax	16	34657	E 33	J1003	5	Shld. to E19
135	RG/178B	Coax	16	34657	E 34	J1002	6	Shld. to E20
121	RG/178B	Coax	16	34657	E 35	J1003	6	Shld. to E21

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 16)

RECORD MOTHERBOARD 34657
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
137	RG/178B	Coax	16	34657	E 36	J1002	7	Shld. to E22
123	RG/178B	Coax	16	34657	E 37	J1003	7	Shld. to E23
153	22 Awg	Black	12	34657	E 38	C10	15	
139	22 Awg	Black	12	34657	E 39	C10	1	
140	22 Awg	Black	12	34657	E 49	C10	2	
141	22 Awg	Black	12	34657	E 41	C10	3	
142	22 Awg	Black	12	34657	E 42	C10	4	
143	22 Awg	Black	12	34657	E 43	C10	5	
144	22 Awg	Black	12	34657	E 44	C10	6	
145	22 Awg	Black		34657	E 45	C10	7	
146	22 Awg	Black		34657	E 46	C10	8	
147	22 Awg	Black		34657	E 47	C10	9	
148	22 Awg	Black		34657	E 48	C10	10	
149	22 Awg	Black		34657	E 49	C10	11	
150	22 Awg	Black		34657	E 50	C10	12	
151	22 Awg	Black		34657	E 51	C10	13	

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 17)

RECORD MOTHERBOARD 34657
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
152	22 Awg	Black		34657	E 52	C10	14	
67	RG/178B	Coax	25	34657	E 53	34672	E8	Shld. to E10
101	RG/178B	Coax	30	34657	E 54	34672	E1	Shld. to E11
99	RG/178B	Coax	25	34657	E 55	34672	E2	Shld. to E12
96	RG/178B	Coax	25	34657	E 56	34672	E16	Shld. to E13
71	RG/178B	Coax	25	34657	E 57	34672	E6	Shld. to E14
51	RG/178B	Coax	20	34657	E 58	34672	E11	Shld. to E15
87	RG/178B	Coax	25	34657	E 59	34672	E3	Shld. to E16
47	RG/178B	Coax	20	34657	E 60	34672	E20	Shld. to E17
94	RG/178B	Coax	20	34657	E 61	34672	E22	Shld. to E18
85	RG/178B	Coax	20	34657	E 62	34672	E23	Shld. to E19
61	RG/178B	Coax	20	34657	E 63	34672	E29	Shld. to E20
34	RG/178B	Coax	20	34657	E 64	34672	E64	Shld. to E21
45	RG/178B	Coax	20	34657	E 65	34672	E35	Shld. to E22
30	RG/178B	Coax	20	34657	E 66	34672	E50	Shld. to E23

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 18)

RECORD MOTHERBOARD 34657
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
110	Shld.	-		34657	E 67	P1103	L	Shld. to 67
109	RG/178B	Coax	30	34657	E 68	P1103	K	
107	RG/178B	Coax	30	34657	E 69	P1103	C	
108	Shld.	-		34657	E 70	P1103	D	Shld. to 70

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 19)

FEED - THRU'S C-10

NO. WIRE	WIRE			FROM	TERMINAL	TO	TERMINAL	REMARKS
	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)					
139	22 Awg	Black	12	C10	1	34657	E39	
140	22 Awg	Black	12	C10	2	34657	E40	
141	22 Awg	Black	12	C10	3	34657	E41	
142	22 Awg	Black	12	C10	4	34657	E42	
143	22 Awg	Black	12	C10	5	34657	E43	
144	22 Awg	Black	12	C10	6	34657	E44	
145	22 Awg	Black	12	C10	7	34657	E45	
146	22 Awg	Black	12	C10	8	34657	E46	
147	22 Awg	Black	12	C10	9	34657	E47	
148	22 Awg	Black	12	C10	10	34657	E48	
149	22 Awg	Black	12	C10	11	34657	E49	
150	22 Awg	Black	12	C10	12	34657	E50	
151	22 Awg	Black	12	C10	13	34657	E51	
152	22 Awg	Black	12	C10	14	34657	E52	
153	22 Awg	Black	12	C10	15	34657	E38	
	22 Awg	Black		C10	16	N/C		
154	22 Awg	Black	12	C10	17	34657	E9	
					18	N/C		

FIGURE 5-1. P-5114B PORTABLE MAGNETIC TAPE RECORDER/REPRODUCER ELECTRONIC HOUSING WIRE LIST
(SHEET 20)

CONNECTOR PLATE ASSY. 34495

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
				J601-1		J602-6		
				J601-2		J602-16		
				J601-4		J602-4		
				J601-6		J601-14		
				J601-7		J603-4		
				J601-8		J603-5		
				J601-10		J603-6		
				J601-11		J603-7		
				J601-12		J603-8		
				J601-16		J602-12		
				J602-9		R602-B		
				J601-1		J502-23		
				J501-2		J502-5		
				J501-8		J502-31		
				J501-10		J502-35		
				J501-11		J502-34		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 3)

CONNECTOR PLATE ASSY. 34495
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	RESULTS
				J501-13		J502-19		
				J501-16		J502-30		
				J501-17		J502-13		
				J501-18		J502-26		
				J501-19		J502-8		
				J501-20		J502-7		
				J501-25		J502-22		
				J501-26		J502-33		
				J501-27		J502-25		
				J501-31		J502-4		
				J603-1		R601-B		
				J502-24				
				R601-A		R602-A		
				J602-10		J603-2		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 4)

CONNECTOR PLATE ASSY. J501, J502, J601, J602, J603

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	RESULTS
C B2	2C/22 Awg	Red		J601-1		L/TS1-B1		Shield to Ground Lug
C 87		Blue		J601-6		L/TS1-E2		
13	24 Awg	Black		J601-7		P 503-P		
14	24 Awg	Black		J601-8		P 503-R		
15	24 Awg	Black		J601-10		P 503-S		
16	24 Awg	Black		J601-11		P 503-T		
17	24 Awg	Black		J601-12		P 503-U		
94	RG/174u	Coax		J602-2		P 701-R		Shield to J602-10
96	24 Awg	Black		J602-8		U/TS2-H1		
98	RG/174u	Coax		J602-14		P 701-N		Shield to J603-2
99	24 Awg	Black		J602-17		U/TS2-F2		
29	24 Awg	Black		J501-3		U/TS2-V1		
30	24 Awg	Black		J501-4		U/TS2-A3		
31	24 Awg	Black		J501-5		U/TS2-A1		
32	24 Awg	Black		J501-6		U/TS2-T3		
33	24 Awg	Black		J501-7		U/TS1-W1		
35	24 Awg	Black		J501-9		P 901-K		

FIGURE 5-2. TRANSPORT WIRE LIST

(SHEET 5)

CONNECTOR PLATE ASSY. J501, J502, J601, J602, J603
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	RESULTS
38	24 Awg	Black		J501-12		P1101-J		
40	24 Awg	Black		J501-13		U/TS2-R1		
41	24 Awg	Black		J501-14		P1101-IK		
42	24 Awg	Black		J501-15		P 801-K		
48	24 Awg	Black		J501-22		P 801-E		
49	24 Awg	Black		J501-24		U/TS2-J3		
53	24 Awg	Black		J501-27		U/TS2-L1		
24	24 Awg	Black		J501-30		Tape Break-upper E2 (Near P503)		
54	24 Awg	Black		J501-30		Tape Break Lite E2 (Near Blwr)		
56	24 Awg	Black		J501-32		U/TS1-V1		
57	24 Awg	Black		J501-33		U/TS2-C1		
58	24 Awg	Black		J501-34		U/TS2-E1		
59	24 Awg	Black		J501-35		P 701-E		
60	24 Awg	Black		J501-35		P1201-R		
61	24 Awg	Black		J502-1		P1101-D		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 6)

CONNECTOR PLATE ASSY. J501, J502, J601, J602, J603,
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	RESULTS
62	24 Awg	Black		J502-2		P 901-R		
63	24 Awg	Black		J502-3		U/TS1-U1		
64	24 Awg	Black		J502-6		P1101-F		
65	24 Awg	Black		J502-7		L/TS1-A3		
66	24 Awg	Black		J502-9		End. Tape Photo E2 (S2)		
67	24 Awg	Black		J502-10		U/TS2-C3		
68	24 Awg	Black		J502-11		U/TS2-V3		
69	24 Awg	Black		J502-12		P 701-F		
70	24 Awg	Black		J502-13		U/TS2-B2		
5	24 Awg	Black		J502-14		P 503-E		
4	24 Awg	Black		J502-15		P 503-D		
71	24 Awg	Black		J502-16		U/TS2-N3		
FF72	2C/22 Awg Red			J502-17		S2-5		Shield to Grd. Lug

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 7)

CONNECTOR PLATE ASSY. J501, J502, J601, J602, J603
(Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	RESULTS
FF 75	Awg	Blue		J502-21		S2-6		
73	24 Awg	Black		J502-18		U/TS2-T1		
74	24 Awg	Black		J502-20		U/TS2-G3		
76	24 Awg	Black		J502-22		U/TS1-D1		
78	24 Awg	Black		J502-32		U/TS2-N1		
79	24 Awg	Black		J502-33		U/TS2-E3		
80	24 Awg	Black		J502-34		U/TS2-R3		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 8)

FEED - THRU CAPACITOR C10

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
102	24 Awg	Black		C 10-1		P1301-A		
103	24 Awg	Black		C 10-2		P1401-A		
104	24 Awg	Black		C 10-3		P1301-D		
105	24 Awg	Black		C 10-4		P1401-D		
106	24 Awg	Black		C 10-5		P1301-H		
107	24 Awg	Black		C 10-6		P1401-H		
108	24 Awg	Black		C 10-7		P1301-L		
109	24 Awg	Black		C 10-8		P1401-L		
110	24 Awg	Black		C 10-9		P1301-P		
111	24 Awg	Black		C 10-10		P1401-P		
112	24 Awg	Black		C 10-11		P1301-R		
113	24 Awg	Black		C 10-12		P1401-R		
114	24 Awg	Black		C 10-13		P1301-N		
115	24 Awg	Black		C 10-14		P1401-N		
116	20 Awg	Black		C 10-15		L/TS2-G2		
117	20 Awg	Black		C 10-17		U/TS1-M3		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 9)

CONNECTOR P201

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	WIRE			REMARKS
				FROM	TERMINAL	TO	
D118	3C/16 Awg	Yellow		P201-A		U/TS1-L1	Shld. Open
E119	2C/16 Awg	Red		P201-B		T1-13	Shld. Open
E120		Blue		P201-C		T1-12	
D121		Blue		P201-D		U/TS1-C1	
F122	2C/22 Awg	Red		P201-E		T1-7	Shld. Open
G123	2C/18 Awg	Red		P201-F		C201-Neg.	Shld. Open
F124		Blue		P201-H		T1-8	
G125		Blue		P201-J		R101-A	
H126	2C/16 Awg	Red		P201-K		P301-J	Shld. Open
H127		Blue		P201-L		P301-F	
DD128	2C/16 Awg	Red		P201-M		T1-9	Shld. Open
J129	3C/16 Awg	Red		P201-N		P301-E	Shld. Open
DD130		Blue		P201-P		T1-10	
23	24 Awg	Black		P201-R		P503-AA	
J131		Blue		P201-S		P301-N	
J132		Yellow		P201-T		P301-P	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 10)

CONNECTOR P201 (Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
275	16 Awg.	Black		P201-U		P301-R		
D133		Red		P201-V		U/TS1-A1		
K134	2C/16 Awg	Red		P201-W		U/TS1-S1		Shld. Open
K135		Blue		P201-X		U/TS1-T1		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 11)

TERMINAL BLOCK 581342-3

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
D133	3C/16 Awg	Red		A 1		P201-V		Shld. to Grd. Lug
L138	2C/22 Awg	Red		B 1		P701-H		Shld. to Grd. Lug
D121		Blue		C 1		P201-D		
76	24 Awg	Black		D 1		J502-22		
143	24 Awg	Black		E 1		P1301-K		
25	24 Awg	Black		F 1		T.B. Lite Pin 1		Upper and E1
26	24 Awg	Black		G 1		T.B. Lite Pin 2		Upper
				H 1		N/C		
M146	2C/16 Awg	Red		J 1		P301-A		Shld. to Grd. Lug
M149		Blue		K 1		P301-D		
D118		Yellow		L 1		P201-A		
				M 1		N/C		
				N 1		N/C		
				P 1		N/C		
				R 1		N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 12)

TERMINAL BLOCK 581342-3 (Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
K 134	2C/16 Awg	Red		S 1		P201-W		Shld. to Grd. Lug
K 135		Blue		T 1		P201-X		
63	24 Awg	Black		U 1		J502-3		Shld. to Grd. Lug
56	24 Awg	Black		V 1		J501-32		
33	24 Awg	Black		W 1		J501-7		
136	24 Awg	Black		A 2		P401-N		
139	24 Awg	Black		B 2		C1-32		
140	24 Awg	Black		C 2		P801-F		
L142	2C/22Awg	Blue		D 2		P701-J		Shld. to Grd. Lug
101	24 Awg	Black		E 2		E.U.T.		Lite Upper
145	24 Awg	Black		F 2		T.B.Lite Pin 2		Lower and E1
				G 2		N/C		
				H 2		N/C		
N147	4C/22 Awg	Red		J 2		P901-B		Shld. to Grd. Lug
N150		Yellow		K 2		P901-D		
				L 2		N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 13)

TERMINAL BLOCK 581342-3 (Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
152	20 Awg	Black		M 2		P1101-H		
				N 2		N/C		
				P 2		N/C		
				R 2		N/C		
P153	2C/22 Awg			S 2		P1401-C		Shld. to Grd. Lug
P155				T 2		P1401-F		
157				U 2		P401-S		
159				V 2		P401-R		
161				W 2		P401-F		
137	16 Awg	Black		A 3		U/TS1-B3		Jumper
137	16 Awg	Black		B 3		U/TS1-A3		Jumper
141	16 Awg	Black		C 3		U/TS1-D3		Jumper
141	16 Awg	Black		D 3		U/TS1-C3		Jumper
144	16 Awg	Black		E 3		U/TS1-G3		Jumper
				F 3		N/C		
144	16 Awg	Black		G 3		U/TS1-E3		Jumper
				H 3		N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 14)

TERMINAL BLOCK 581342-3 (Continued)

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
N148	4C/22 Awg	Blue		J 3		P901-A		Shld. to Grd. Lug
N151		Green		K 3		P901-C		
				L 3		N/C		
117	20 Awg	Black		M 3		C10-17		
				N 3		N/C		
				P 3		N/C		
				R 3		N/C		
Q154	2C/22 Awg	Red		S 3		P1301-C		Shld. to Grd. Lug
Q156		Blue		T 3		P1301-F		
158	24 Awg	Black		U 3		C1-14		
160	24 Awg	Black		V 3		C1-13		
162	24 Awg	Black		W 3		C1-6		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 15)

CONNECTOR P901

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
N148	4C/22 Awg	Blue		A		U/TS1-J3		Shld. Open
N147		Red		B		U/TS1-J2		
N151		Green		C		U/TS1-K3		
N150		Yellow		D		U/TS1-K2		
T196	2C/22 Awg	Red		E		L/TS1-A1		Shld. Open
T197		Blue		F		L/TS1-C1		
198	24 Awg	Black		H		L/TS2-W3		
199	24 Awg	Black		J		U/TS2-P1		
35	24 Awg	Black		K		J501-9		
200	24 Awg	Black		L		L/TS1-V1		
201	24 Awg	Black		M		L/TS2-V1		
202	20 Awg	Black		N		P801-N		
203	20 Awg	Black		P		U/TS2-D2		
62	24 Awg	Black		R		J502-2		
				S		N/C		
				T		N/C		
				U		N/C		
				V		N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 16)

CONNECTOR P1301

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
102	24 Awg	Black		A		C10-1		
Q 154	2C/22 Awg	Red		B		N/C		
104	24 Awg	Black		C		U/TS1-S3		Shld. Open
Q 156		Blue		D		C10-3		
106	24 Awg	Black		E		N/C		
143	24 Awg	Black		F		U/TS1-T3		
108	24 Awg	Black		H		C10-5		
114	24 Awg	Black		J		N/C		
110	24 Awg	Black		K		U/TS1-E1		
112	24 Awg	Black		L		C10-7		
				M		N/C		
				N		C10-13		
				P		C10-9		
				R		C10-11		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 17)

CONNECTOR P1401

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
103	24 Awg	Black		A		C10-2		
				B		N/C		
P153	2C/22 Awg	Red		C		U/TS1-S2		Shld. Open
105	24 Awg	Black		D		C10-4		
				E		N/C		
P155		Blue		F		U/TS1-T2		
107	24 Awg	Black		H		C10-6		
				J		N/C		
163	24 Awg	Black		K		L/TS1-E1		
109	24 Awg	Black		L		C10-8		
				M		N/C		
115	24 Awg	Black		N		C10-14		
111	24 Awg	Black		P		C10-10		
113	24 Awg	Black		R		C10-12		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 18)

CONNECTOR P401

NO. WIRE	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
164	24 Awg	Black		A		U/TS2-W2		
165	24 Awg	Black		B		U/TS2-P3		
166	24 Awg	Black		C		U/TS2-W1		
167	24 Awg	Black		D		U/TS2-L3		
168	24 Awg	Black		E		U/TS2-U2		
161	24 Awg	Black		F		U/TS1-W2		
169	24 Awg	Black		H		U/TS2-S3		
170	24 Awg	Black		J		U/TS2-K3		
171	24 Awg	Black		K		U/TS2-S2		
172	24 Awg	Black		L		U/TS2-B1		
173	24 Awg	Black		M		U/TS2-D3		
136	24 Awg	Black		N		U/TS1-A2		
174	24 Awg	Black		P		U/TS2-P2		
159	24 Awg	Black		R		U/TS1-V2		
157	24 Awg	Black		S		U/TS1-U2		
R175	2C/22 Awg	Red		T		S1-2		Shld. to Grd. Lug
176	24 Awg	Black		U		U/TS2-M2		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 19)

CONNECTOR P401 (Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
177	24 Awg	Black		V		U/TS2-U3		
176	24 Awg	Black		W		U/TS2-M1		
R 179		Blue		X		S1-1		
180	24 Awg	Black		Y		U/TS2-G1		
181	24 Awg	Black		Z		L/TS2-T1		
182	24 Awg	Black		AA		U/TS2-S1		
183	24 Awg	Black		BB		U/TS2-B3		
184	24 Awg	Black		CC		U/TS2-J1		
185	24 Awg	Black		DD		L/TS1-U2		
186	24 Awg	Black		EE		L/TS1-C2		
S187	2C/22 Awg	Red		FF		FL-1		Shld. to Grd. Lug
188	24 Awg	Black		HH		U/TS2-F3		
189	24 Awg	Black		JJ		U/TS2-D1		
				KK		N/C		
S190		Blue		LL		FL-2		
191	24 Awg	Black		MM		U/TS2-H3		
192	24 Awg	Black		NN		U/TS2-F1		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 20)

TOGGLE SWITCH DP-7

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
EE 193	2C/22 Awg	Red		S2-1		N/C		
EE 194		Blue		S2-2		N/C		
FF 72	2C/22 Awg	Red		S2-3		C 1	28	Shld. Left Open
FF 75		Blue		S2-4		C 1	29	
				S2-5		J502	17	Shld. Left Open
				S2-6		J502	21	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 21)

UPPER TS 2

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
31	24 Awg	Black		U/TS2	A1	J501	5	
224	2C/20 Awg	Red		U/TS2	A2	P801	R	YNC 130 Lug MR8NC-2 Tool
30	24 Awg	Black		U/TS2	A3	J501	4	
172	24 Awg	Black		U/TS2	B1	P401	1	
70	24 Awg	Black		U/TS2	B2	J502	13	
183	24 Awg	Black		U/TS2	B3	P401	BB	
57	24 Awg	Black		U/TS2	C1	J501	33	
225	2C/20 Awg	Blue		U/TS2	C2	P801	P	
67	24 Awg	Black		U/TS2	C3	J502	10	
189	24 Awg	Black		U/TS2	D1	P401	JJ	
203	20 Awg	Black		U/TS2	D2	P901	P	
173	24 Awg	Black		U/TS2	D3	P401	M	
58	24 Awg	Black		U/TS2	E1	J501	34	
226	24 Awg	Black		U/TS2	E2	P301	M	
79	24 Awg	Black		U/TS2	E3	J502	33	
192	24 Awg	Black		U/TS2	F1	P401	NN	
99	24 Awg	Black		U/TS2	F2	J602	17	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 22)

UPPER TS 2
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
188	24 Awg	Black		U/TS2	F3	P401	HH	
180	24 Awg	Black		U/TS2	G1	P401	Y	
7	18 Awg	Black		U/TS2	G2	P503	H	
74	24 Awg	Black		U/TS2	G3	J502	20	
96	24 Awg	Black		U/TS2	H1	J602	8	
227	24 Awg	Black		U/TS2	H2	P1101	B	
191	24 Awg	Black		U/TS2	H3	P401	MM	
184	24 Awg	Black		U/TS2	J1	P401	CC	
49	24 Awg	Black			J2	N/C		
209	24 Awg	Black		U/TS2	J3	J501	24	
				U/TS2	K1	L1TS1	G1	Jumper
170	24 Awg	Black			K2	N/C		
53	24 Awg	Black		U/TS2	K3	P401	J	
18	24 Awg	Black		U/TS2	L1	J501	27	
167	24 Awg	Black		U/TS2	L2	P503		
178	24 Awg	Black		U/TS2	L3	P401	D	
				U/TS2	M1	P401	W	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 23)

UPPER TS 2
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
176	24 Awg	Black		U/TS2	M2	P401	U	
3	24 Awg	Black		U/TS2	M3	P503	C	
78	24 Awg	Black		U/TS2	N1	J502	32	
19	24 Awg	Black		U/TS2	N2	P503	W	
71	24 Awg	Black		U/TS2	N3	J502	16	
149	24 Awg	Black		U/TS2	P1	P901	J	
174	24 Awg	Black		U/TS2	P2	P401	P	
165	24 Awg	Black		U/TS2	P3	P401	B	
40	24 Awg	Black		U/TS2	R1	J501	13	
20	24 Awg	Black		U/TS2	R2	P503	X	
80	24 Awg	Black		U/TS2	R3	J502	34	
182	24 Awg	Black		U/TS2	S1	P401	AA	
171	24 Awg	Black		U/TS2	S2	P401	K	
169	24 Awg	Black		U/TS2	S3	P401	H	
73	24 Awg	Black		U/TS2	T1	J502	18	
21	24 Awg	Black		U/TS2	T2	P503	Y	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 24)

UPPER TS 2
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
32	24 Awg	Black		U/TS2	T3	J501	6	
6	24 Awg	Black		U/TS2	U1	P503	F	
168	24 Awg	Black		U/TS2	U2	P401	E	
177	24 Awg	Black		U/TS2	U3	P401	V	
29	24 Awg	Black		U/TS2	V1	J501	3	
22	24 Awg	Black		U/TS2	V2	P503	Z	
68	24 Awg	Black		U/TS2	V3	J502	U	
166	24 Awg	Black		U/TS2	W1	P401	C	
164	24 Awg	Black		U/TS2	W2	P401	A	
228	24 Awg	Black		U/TS2	W3	P701	P	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 25)

LOWER TS 1

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
196	2C/22 Awg	Red		L/TS1	A1	P901	E	YNC 130 Lug MR8NC -2 Tool
204	24 Awg	Black		L/TS1	A2	P1101	A	
65	24 Awg	Black		L/TS1	A3	J502	7	
82	2C/22 Awg	Red		L/TS1	B1	J601	1	YNC 130 Lug MR8NC-2 Tool
				L/TS1	B2	N/C		
205	16 Awg	Black		L/TS1	B3	L/TS1	F3	Jumper
197		Blue		L/TS1	C1	P901	F	
186	24 Awg	Black		L/TS1	C2	P401	EE	
206	24 Awg	Black		L/TS1	C3	P1101	C	
2	2C/18 Awg	Red		L/TS1	D1	P503	B	YNC 160 Lug MR8NC-3 Tool
207	16 Awg	Black		L/TS1	D2	L/TS1	M1	Jumper
208	16 Awg	Black		L/TS1	D3	L/TS1	E3	Jumper
163	24 Awg	Black		L/TS1	E1	P1401	K	
87	2C/22	Blue		L/TS1	E2	J601	6	
208	16 Awg	Black		L/TS1	E3	L/TS1	D3	Jumper

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 26)

LOWER TS 1
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
195	24 Awg	Black		L/TS1	F1	E.U.T.	E1 Photo Cell	T.B. Lite Up
205	16 Awg	Black		L/TS1	F2	N/C		
209	24 Awg	Black		L/TS1	F3	L/TS1	B3	Jumper
210	24 Awg	Black		L/TS1	G1	U/TS2	R1	Jumper
				L/TS1	G2	T.B. Lite	Lower	Near P401
211	24 Awg	Black		L/TS1	G3	E.U.T.	Lwr. Lite	Near S1
				L/TS1	R1	N/C		
				L/TS1	R2	N/C		
				L/TS1	R3	N/C		
216	2C/22 Awg	Red		L/TS1	S1	P1201	R	YNC 130 Lug MR8NC-2 Tool
				L/TS1	S2	N/C		
				L/TS1	S3	N/C		
217	2C/22 Awg	Blue		L/TS1	T1	P1201	A	YNC 130 Lug MR8NC-2 Tool

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 27)

LOWER TS 1
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
				L/TS1	T2	N/C		
				L/TS1	T3	N/C		
218	24 Awg	Black		L/TS1	U1	P1101	E	
185	24 Awg	Black		L/TS1	U2	P401	DD	
219	24 Awg	Black		L/TS1	U3	C1	23	
200	24 Awg	Black		L/TS1	V1	P701	L	
220	24 Awg	Black		L/TS1	V2	P701	M	
221	24 Awg	Black		L/TS1	V3	E.U.T.	Lite	
222	24 Awg	Black		L/TS1	W1	P801	L	
223	24 Awg	Black		L/TS1	W2	P701	L	
100	24 Awg	Black		L/TS1	W3	E.U.T.	Lite	
				L/TS1	H1	N/C		
				L/TS1	H2	N/C		
				L/TS1	H3	N/C		
212	4C/22 Awg	Red		L/TS1	J1	P801	A	YMC 160 Lug MR8NC-3 Tool
213	4C/22 Awg	Blue		L/TS1	J2	P801	B	YMC 160 Lug MR8NC-3 Tool

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 28)

LOWER TS 1
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
214	4C/22 Awg	Yellow		L/TS1	J3	N/C		
				L/TS1	K1	P801	C	YNC 160 Lug MR8NC-3 Tool
215	4C/22 Awg	Green		L/TS1	K2	P801	D	YNC 160 Lug MR8NC-3 Tool
				L/TS1	K3	N/C		
				L/TS1	L1	N/C		
1	2C/18 Awg	Blue		L/TS1	L2	P503	A	
				L/TS1	L3	N/C		
207	16 Awg	Black		L/TS1	M1	L/TS1	D2	Jumper
				L/TS1	M2	N/C		
				L/TS1	M3	N/C		
				L/TS1	N1	N/C		
				L/TS1	N2	N/C		
				L/TS1	N3	N/C		
				L/TS1	P1	N/C		
				L/TS1	P2	N/C		
				L/TS1	P3	N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 29)

CONNECTOR P1101

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
204	24 Awg	Black		A		L/TS1	A2	
227	24 Awg	Black		B		U/TS2	H2	
206	24 Awg	Black		C		L/TS1	C3	
61	24 Awg	Black		D		J502	1	
218	24 Awg	Black		E		L/TS1	U1	
64	24 Awg	Black		F		J502	6	
152	20 Awg	Black		H		U/TS1	M2	
41	24 Awg	Black		K		J501	14	
38	24 Awg	Black		J		J501	12	
				L		N/C		
				M		N/C		
				N		N/C		
				P		N/C		
				R		N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 30)

TRANSFORMER T1

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
BB 265	4C/22 Awg	Blue		1		S1	2	Shld. To Grd. Lug
CC 266	2C/22 Awg	Blue		1		Blower	2	Shld. To Grd. Lug
BB 267		Yellow		2		S1	3	
CC 268		Red		2		Blower	1	
BB 269		Green		3		S1	4	
BB 270		Red		4		S1	1	
X 229	3C/16 Awg	Red		5		P301	B	Shld. To Grd. Lug
X 230		Blue		6		P301	C	
F 122	2C/22 Awg	Red		7		P201	E	Shld. To Grd. Lug
F 124		Blue		8		P201	H	
DD 128	2C/16 Awg	Red		9		P201	M	
DD 130		Blue		10		P201	P	
X 231		Yellow		11		P301	H	
E 120	2C/16 Awg	Blue		12		P201	C	Shld. To Grd. Lug
E 119		Red		13		P201	B	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 31)

CONNECTOR P301

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
146	2C/16 Awg	Red		P301	A	U/TS1	J1	Shld. To Grd. Lug
229	3C/16 Awg	Red			B	T1	5	Shld. To Grd. Lug
230		Blue			C	T1	6	
149		Blue			D	U/TS1	K1	Shld. To Grd. Lug
129	3C/16 Awg	Red			E	P201	N	Shld. To Grd. Lug
127	2C/16 Awg	Blue			F	P201	L	Shld. To Grd. Lug
231		Yellow			H	T1	11	
126		Red			J	P201	K	
232	2C/16 Awg	Red			K	P701	A	Shld. To Grd. Lug
233		Blue			L	P701	B	
226	22 Awg	Black			M	U/TS2	E2	
131		Blue			N	P201	S	Shld. To Grd. Lug
132		Yellow			P	P201	T	
275	16 Awg	Black			R	P201	U	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 32)

LOWER TS2

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
234	24 Awg	Black		L/TS2	A1	C1	10	
235	2C/22 Awg	Red		L/TS2	A2	P701	C	
236	24 Awg	Black		L/TS2	A3	C1	21	
				L/TS2	B1	N/C		
237	2C/18 Awg	Red		L/TS2	B2	C201	Pos.	
				L/TS2	B3	N/C		
238	24 Awg	Black		L/TS2	C1	C1	25	
239	2C/22 Awg	Blue		L/TS2	C2	P701	0	
240	24 Awg	Black		L/TS2	C3	C1	11	
				L/TS2	D1	N/C		
241	2C/18 Awg	Blue		L/TS2	D2	C201	Neg.	
				L/TS2	D3	N/C		
242	24 Awg	Black		L/TS2	E1	C1	27	
243	24 Awg	Black		L/TS2	E2	P701	K	
244	24 Awg	Black		L/TS2	E3	C1	24	
				L/TS2	F1	N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 33)

LOWER TS2
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
				L/TS2	F2	N/C		
				L/TS2	F3	N/C		
				L/TS2	G1	N/C		
116	20 Awg	Black		L/TS2	G2	C10	15	
245	24 Awg	Black		L/TS2	G3	C1	26	
246	24 Awg	Black		L/TS2	H1	C1	18	
				L/TS2	H2	N/C		
				L/TS2	H3	N/C		
				L/TS2	J1	N/C		
				L/TS2	J2	N/C		
247	24 Awg	Black		L/TS2	J3	C1	8	
248	24 Awg	Black		L/TS2	K1	C1	22	
				L/TS2	K2	N/C		
				L/TS2	K3	N/C		
249	24 Awg	Black		L/TS2	L1	C1	17	
250	24 Awg	Black		L/TS2	L2	C1	15	
251	24 Awg	Black		L/TS2	L3	C1	4	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 34)

LOWER TS2
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
				L/TS2	M1	N/C		
				L/TS2	M2	N/C		
				L/TS2	M2	N/C		
252	24 Awg	Black		L/TS2	N1	P801	J	
253	24 Awg	Black		L/TS2	N2	C1	12	
254	24 Awg	Black		L/TS2	N3	C1	2	
				L/TS2	P1	N/C		
				L/TS2	P2	N/C		
				L/TS2	P3	N/C		
255	24 Awg	Black		L/TS2	R1	C1	20	
256	24 Awg	Black		L/TS2	R2	C1	9	
257	24 Awg	Black		L/TS2	R3	C1	7	
				L/TS2	S1	N/C		
				L/TS2	S2	N/C		
				L/TS2	S3	N/C		
181	24 Awg	Black		L/TS2	T1	P401	2	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 35)

LOWER TS2
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
258	24 Awg	Black		L/TS2	T2	C1	5	
259	24 Awg	Black		L/TS2	T3	P801	M	
260	24 Awg	Black		L/TS2	U1	C1	19	
				L/TS2	U2	N/C		
261	24 Awg	Black		L/TS2	U3	C1	16	
201	24 Awg	Black		L/TS2	V1	P901	M	
262	24 Awg	Black		L/TS2	V2	C1	1	
263	24 Awg	Black		L/TS2	V3	P801	H	
264	24 Awg	Black		L/TS2	W1	C1	3	
				L/TS2	W2	N/C		
198	24 Awg	Black		L/TS2	W3	P901	H	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 36)

S1 (REMOTE FILTER ASSY.)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
R179	2C/22 Awg	Blue		S1	1	P401	X	Shld. Open
BB270	4C/22 Awg	Red			1	T1	4	Shld. Open
R175		Red			2	P401	T	
BB265		Blue			2	T1	1	
BB267		Yellow			3	T1	2	
BB269		Green			4	T1	3	
271	20 Awg	Buss			5	S1	6	Jumper
271	20 Awg	Buss			6	S1	5	Jumper

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 37)

CONNECTOR P1201

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
V217	2C/22 Awg	Blue		P1201	A	L/TS1	T1	
B9	5C/22 Awg	Blue			B	P503	K	
					C	N/C		
B8		Red			D	P503	J	
B12		Violet			E	P503	N	
B10		Yellow			F	P503	L	
					H	N/C		
B11		Green			J	P503	M	
V216		Red			K	L/TS1	S1	
					L	N/C		
					M	N/C		
					N	N/C		
272	24 Awg				P	C201	Neg (-)	
60	24 Awg				R	J501	35	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 38)

R101 - C201 - FL1 AND FL2

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
G125	2C/18 Awg	Blue		R101	A	P201	J	
273	18 Awg	Black		R101	B	C201	+ Pos.	
273	18 Awg	Black		C201	+ Pos.	R101	B	
AA237	2C/18 Awg	Red		C201	+ Pos.	L/TS2	B2	
AA241		Blue		C201	- Neg.	L/TS2	D2	
G123		Red		C201	- Neg.	P201	F	
272	24 Awg.	Black		C201	- Neg.	P1201	P	
S187	2C/22 Awg	Red		FL	1	P401	FF	
S190		Blue		FL	2	P401	LL	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 39)

CONNECTOR P801

WIRE NO	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
U212	4C/22 Awg	Red		P801	A	L/TS1	J1	Shld. Open
U213		Blue			B	L/TS1	J2	
U214		Yellow			C	L/TS1	K1	
U215		Green			D	L/TS1	K2	
48	24 Awg	Black			E	J501	22	
140	24 Awg	Black			F	U/TS1	C2	
263	24 Awg	Black			H	L/TS2	V3	
252	24 Awg	Black			J	L/TS2	N1	
42	24 Awg	Black			K	J501	15	
222	24 Awg	Black			L	L/TS1	W1	
259	24 Awg	Black			M	L/TS2	T3	
202	24 Awg	Black			N	P901	N	
W225	2C/22 Awg	Blue			P	U/TS2	C2	Shld. Open
W224		Red			R	U/TS2	A2	
					S	N/C		
					T	N/C		
					U	N/C		
					V	N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 40)

CONNECTOR P701

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
Y232	2C/16 Awg	Red		P701	A	P301	K	Shld. Open
Y233		Blue			B	P301	L	
Z235	2C/22 Awg	Red			C	L/TS2	A2	Shld. Open
Z239		Blue			D	L/TS2	C2	
59	24 Awg	Black			E	J501	35	
69	24 Awg	Black			F	J502	12	
L138	2C/22 Awg	Red			H	U/TS1	B1	Shld. Open
L142		Blue			J	U/TS1	D2	
243	24 Awg	Black			K	L/TS2	E2	
223	24 Awg	Black			L	L/TS1	W2	
220	24 Awg	Black			M	L/TS1	V2	
98	R6/174U	Coax			N	J602	14	
228	24 Awg	Black			P	U/TS2	W3	
94	R6/174U	Coax			R	J602	2	
					S	N/C		
					T	N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 41)

CONNECTOR P701
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
					U	N/C		
					V	N/C		
					W	N/C		
					X	N/C		

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 42)

FEED-THRU C1

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
262	24			C1	1	L/TS2	V2	
254	24			C1	2	L/TS2	N3	
264	24			C1	3	L/TS2	W1	
251	24			C1	4	L/TS2	L3	
258	24			C1	5	L/TS2	T2	
162	24			C1	6	U/TS1	W3	
257	24			C1	7	L/TS2	R3	
247	24			C1	8	L/TS2	J3	
256	24			C1	9	L/TS2	R2	
234	24			C1	10	L/TS2	A1	
240	24			C1	11	L/TS2	C3	
253	24			C1	12	L/TS2	N2	
160	24			C1	13	U/TS1	V3	
158	24			C1	14	U/TS1	U3	
250	24			C1	15	L/TS2	L2	
261	24			C1	16	L/TS2	U3	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 43)

FEED-THRU C1
(Continued)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
249	24			C1	17	L/TS2	L1	
246	24			C1	18	L/TS2	H1	
260	24			C1	19	L/TS2	U1	
255	24			C1	20	L/TS2	R1	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 44)

FEED-THRU C1 (BLOWER ASSY)

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TERMINAL	TO	TERMINAL	REMARKS
236	24 Awg	Black		C1	21	L/TS2	A3	
248	24 Awg	Black			22	L/TS2	K1	
219	24 Awg	Black			23	L/TS1	U3	
244	24 Awg	Black			24	L/TS2	E3	
238	24 Awg	Black			25	L/TS2	C1	
245	24 Awg	Black			26	L/TS2	C3	
242	24 Awg	Black			27	L/TS2	E1	
EE193	24 Awg	Black			28	S2	3	
EE194	24 Awg	Black			29	S2	4	
					30	N/C		
139	24 Awg	Black			31	N/C		
					32	U/TS1	B2	
CC266	2C/22 Awg	Red		Blower	1	T1	1	
CC268		Blue		Blower	2	T1	2	

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 45)

PHOTO CELLS AND TAPE BREAK ASSY'S

WIRE NO.	WIRE SIZE	WIRE TYPE	WIRE LENGTH (INCHES)	FROM	TO	TERMINAL
25	24 Awg	Black		Upper Tape Break Lamp	U/TS1	E1
26	24 Awg	Black		Tape Break (upper)	U/TS1	G1
24	24 Awg	Black		Tape Break (upper) E2	J501	30
100	24 Awg	Black		E.U.T. Lite Upper	L/TS1	W3
101	24 Awg	Black		E.U.T. Lite Upper	L/TS1	E2
66	24 Awg	Black		E.U.T. Photo E2	J502	9
195	24 Awg	Black		E.U.T. Photo (Col) E1	L/TS1	F1
NOTE* Jumper E1 & E1 - E2 & E2 - Together						
221	24 Awg	Black		E.U.T. Lower	L/TS1	V3
211	24 Awg	Black		E.U.T. Lower	L/TS1	G3
145	24 Awg	Black		Lower Tape Break & E1	U/TS1	F2
210	24 Awg	Black		Lower Tape Break	L/TS1	G2
54	24 Awg	Black		Lower Tape Break - Photo Trans. (Emitter) E2	J501	30

FIGURE 5-2. TRANSPORT WIRE LIST
(SHEET 46)

- 1. ALL CAPACITORS ARE: FEED THRU
ERR. NO. 201-052
- 2. ALL FILTERS ARE: GENISTRON NO. GF4200-B
- 3. ALL FUSES ARE: LITTLE FUSE NO. 313004, 4AMP
- 4. COIL IS DELEVAN NO. 1581-04
- 5. HIGHEST COMPONENT USED:
CAPACITORS: C31

REFERENCE DRAWINGS:
REMOTE FILTER ASSEMBLY F-34669

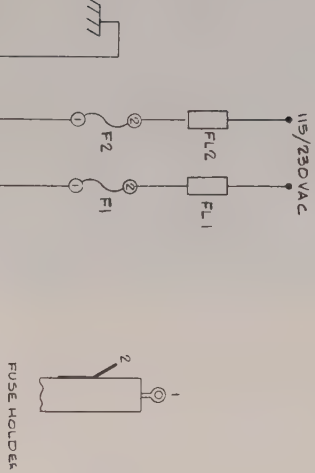
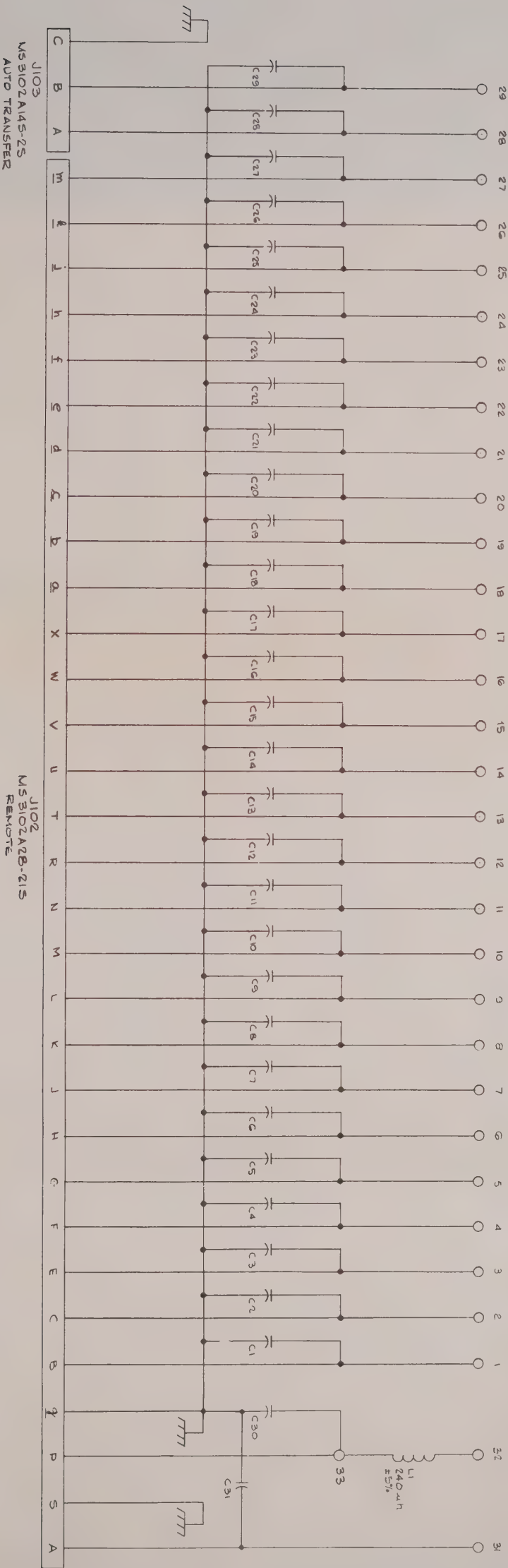


FIGURE 5-3. REMOTE FILTER ASSEMBLY, SCHEMATIC 34257

NOTES: UNLESS OTHERWISE NOTED
 1. RESISTOR VALUE IS IN OHMS
 2. CHOKE L1 IS T_{MH} , GAMP.
 3. ALL CAPACITOR VALUES ARE
 IN MICROFARADS.
 4. CR1 THRU CR4 ARE IN2587
 CR5 THRU CR9 ARE IN2589
 CR10 IN2587.
 5. HIGHEST N₂ USED.

RESISTOR R1
 CAPACITOR C6
 TRANSISTOR Q2
 DIODE CR9
 CHOKE L1
 RELAY K2

REFERENCE
 1. FOR ASSY SEE DNG D-34438

WINCHESTER MEA200P-JS MATES WITH
 MRACEOS-JTC6H

P201

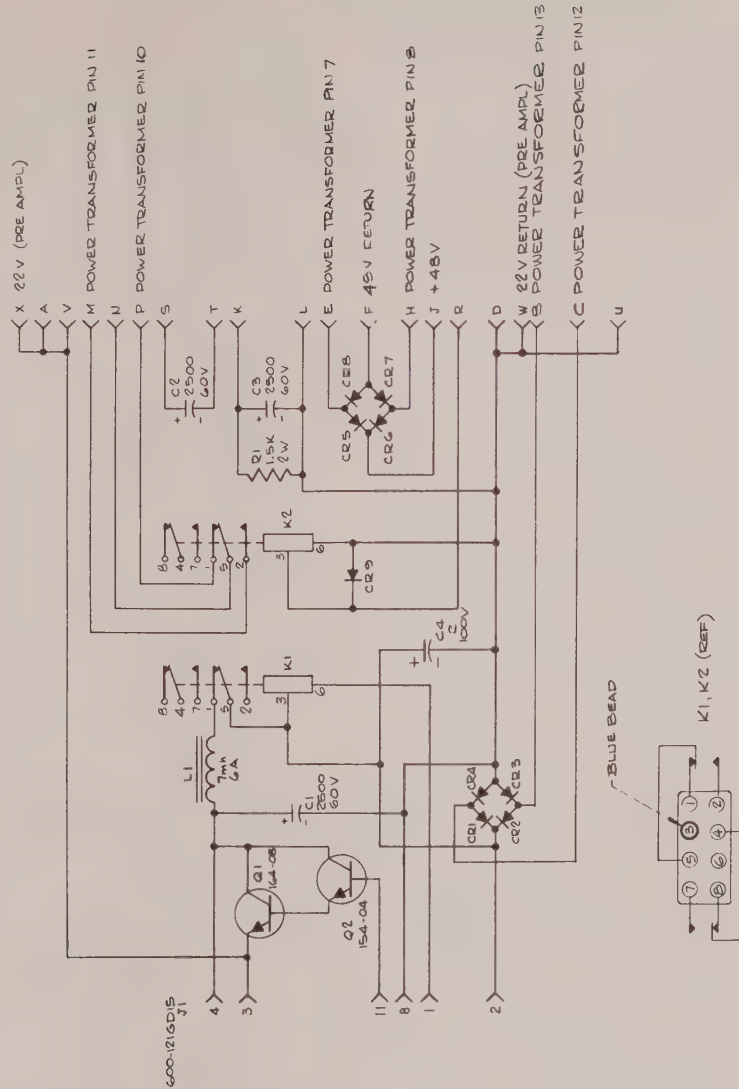
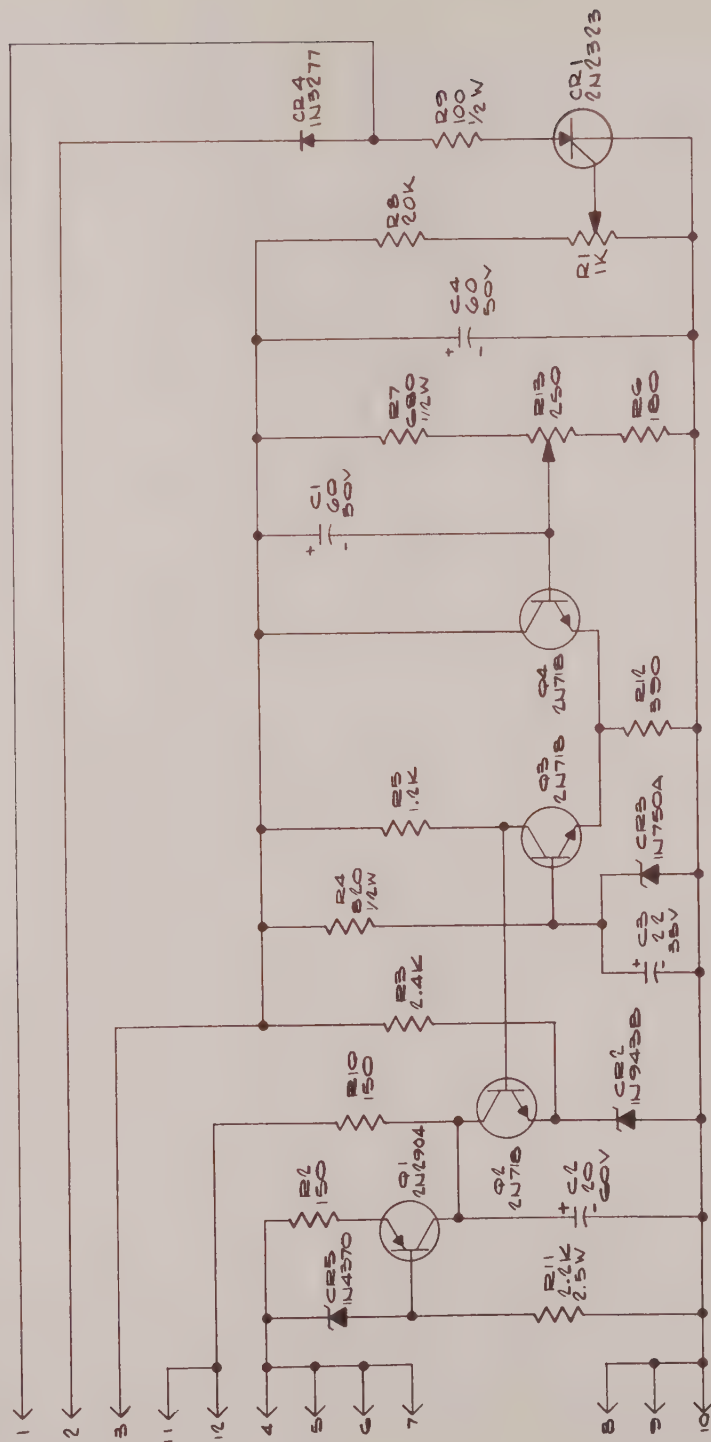


FIGURE 5-4. POWER SUPPLY WITH VOLTAGE REGULATOR, SCHEMATIC 34708

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL FIXED RESISTOR VALUES IN OHMS, $\pm 5\%$, $\frac{1}{4}$ WATT.
 2. ALL CAPACITOR VALUES IN MICROFARADS
 3. HIGHEST N_p USED:
 RESISTOR R13, CAPACITOR C4,
 TRANSISTOR Q4, DIODE CR5.



REFERENCE DRAWINGS
 1. FOR ASSY DWG SEE D-33037

FIGURE 5-5. REGULATOR, SCHEMATIC 33038

- NOTES: UNLESS OTHERWISE NOTED
 1. ALL RESISTOR VALUES ARE IN OHMS.
 2. CR1 THRU CR8 ARE IN25B7.
 3. ALL CAPACITOR VALUES ARE IN MICROFARADS
 4. CHOKES L1 & L2 ARE 7mh, 6amp.
 5. HIGHEST NO. USED:
- CAPACITOR C3
 RESISTOR R2
 DIODE CR9
 CHOKES L1 L2

WINCHESTER MRA14P-J6 MATES WITH MRAC14S-JTC6H

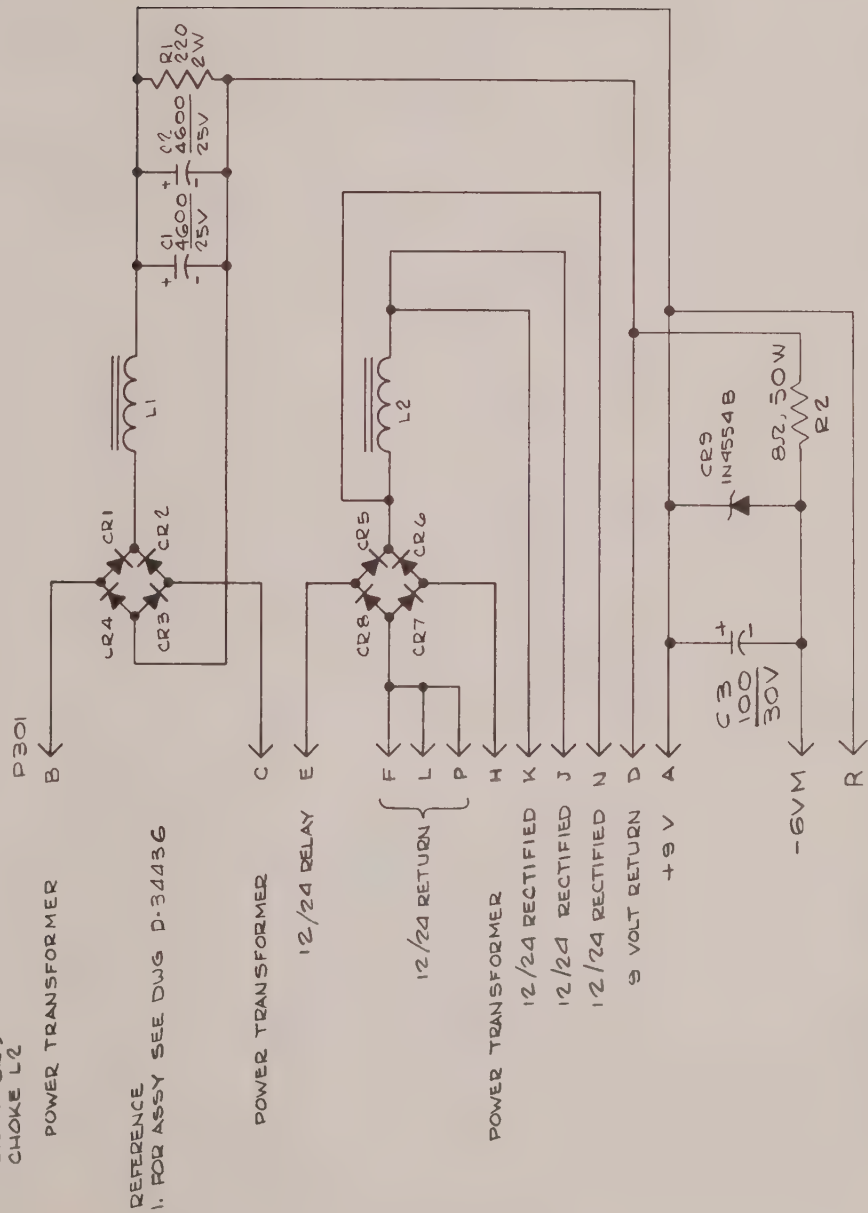


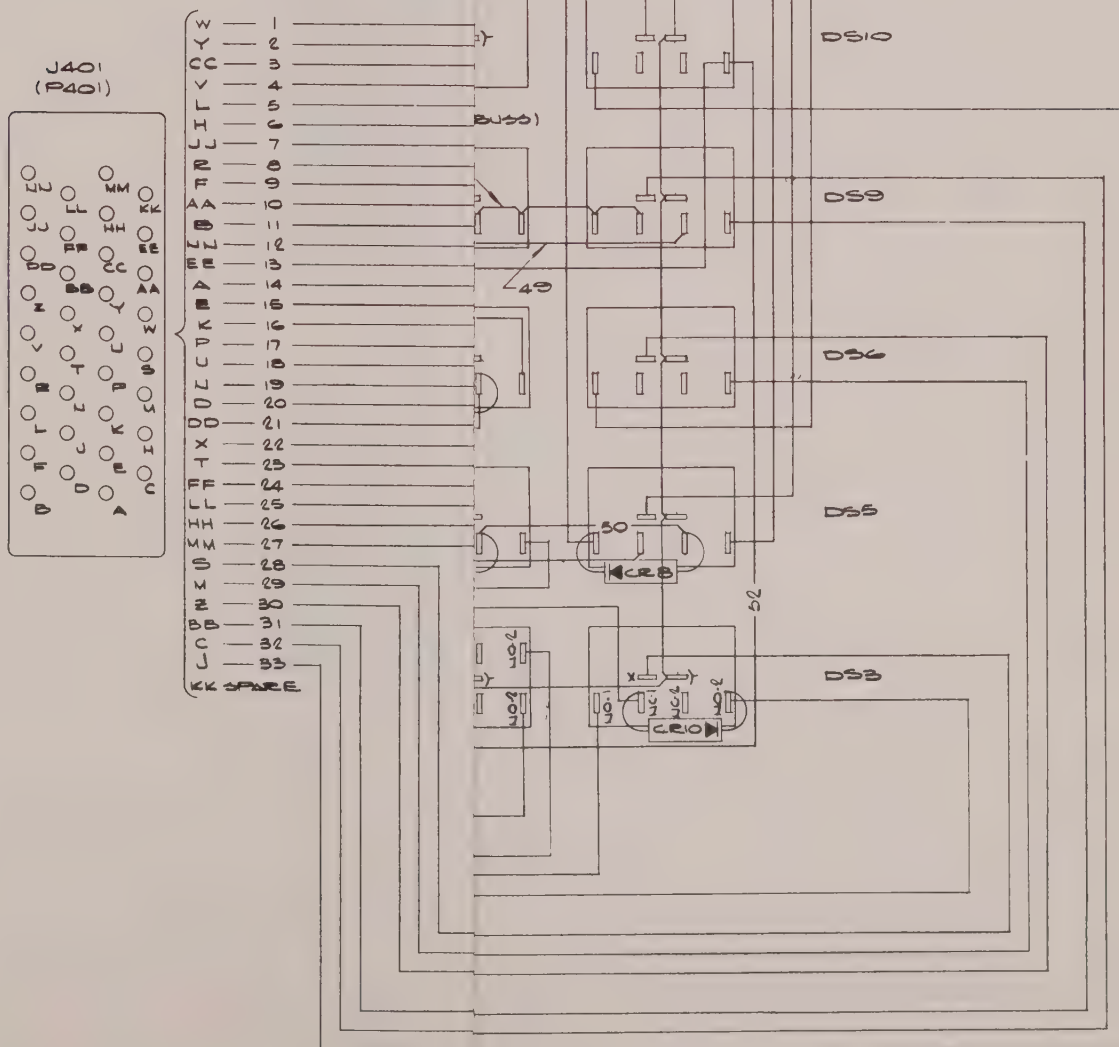
FIGURE 5-6. POWER SUPPLY WITHOUT VOLTAGE REGULATOR, SCHEMATIC 34707

NOTES: UNLESS OTHERWISE SPECIFIED

1. WIRE NO.'S 22 THRU 25 ARE 18AWG
ALL OTHERS 24 AWG
2. REFERENCE DESIGNATIONS ARE FOR
REFERENCE ONLY AND DOES NOT
NECESSARILY APPEAR ON PART

REFERENCE DRAWINGS

1. FOR SCHEMATIC SEE DWG D-34573
2. FOR ASSY SEE DWG D-34572



CONTROL PANEL, WIRING DIAGRAM 34713

NOTES: UNLESS OTHERWISE SPECIFIED
 1. WIRE NOS 21 THRU 25 ARE 18 AWG
 ALL OTHERS 24 AWG
 2. REFERENCE DESIGNATIONS ARE FOR
 REFERENCE ONLY AND DOES NOT
 NECESSARILY APPEAR ON PART

REFERENCE DRAWINGS
 1. FOR SCHEMATIC SEE DNG D-34573
 2. FOR Assy SEE DNG D-34572

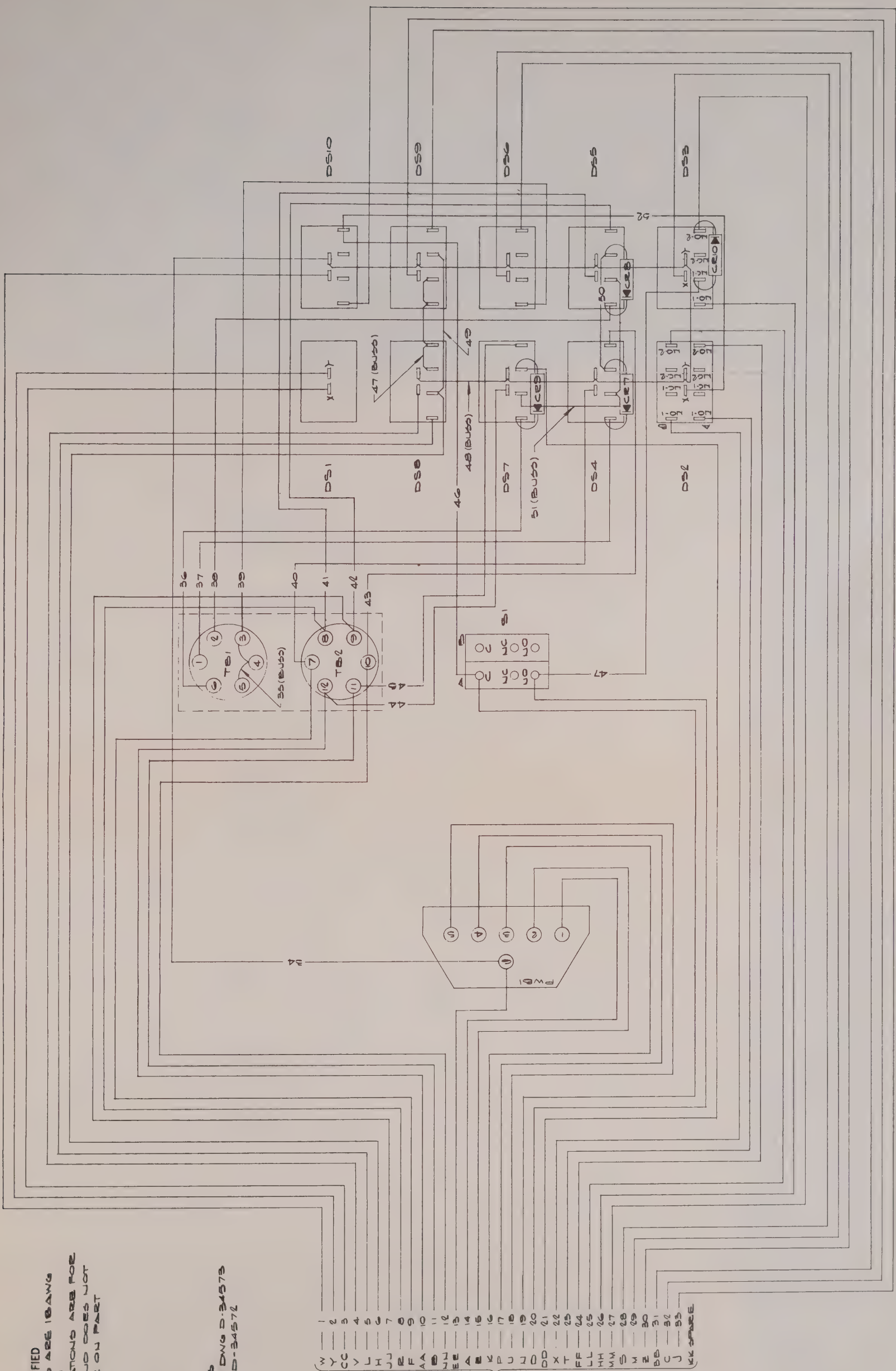


FIGURE 5-7. CONTROL PANEL, WIRING DIAGRAM 34713
 5-74

NOTES: UNLESS OTHERWISE SPECIFIED
 1. CR1-10 ARE IN3277 (DI-52) DIODE INC
 2. DS 3-10 ARE 01-145-530 LICON
 3. DS 11-15 ARE BEP62AS; CAL-GLO

REFERENCE DRAWINGS
 1. FOR ASSEMBLY SEE D-34572
 2. FOR WIRING DIAGRAM SEE D-34713

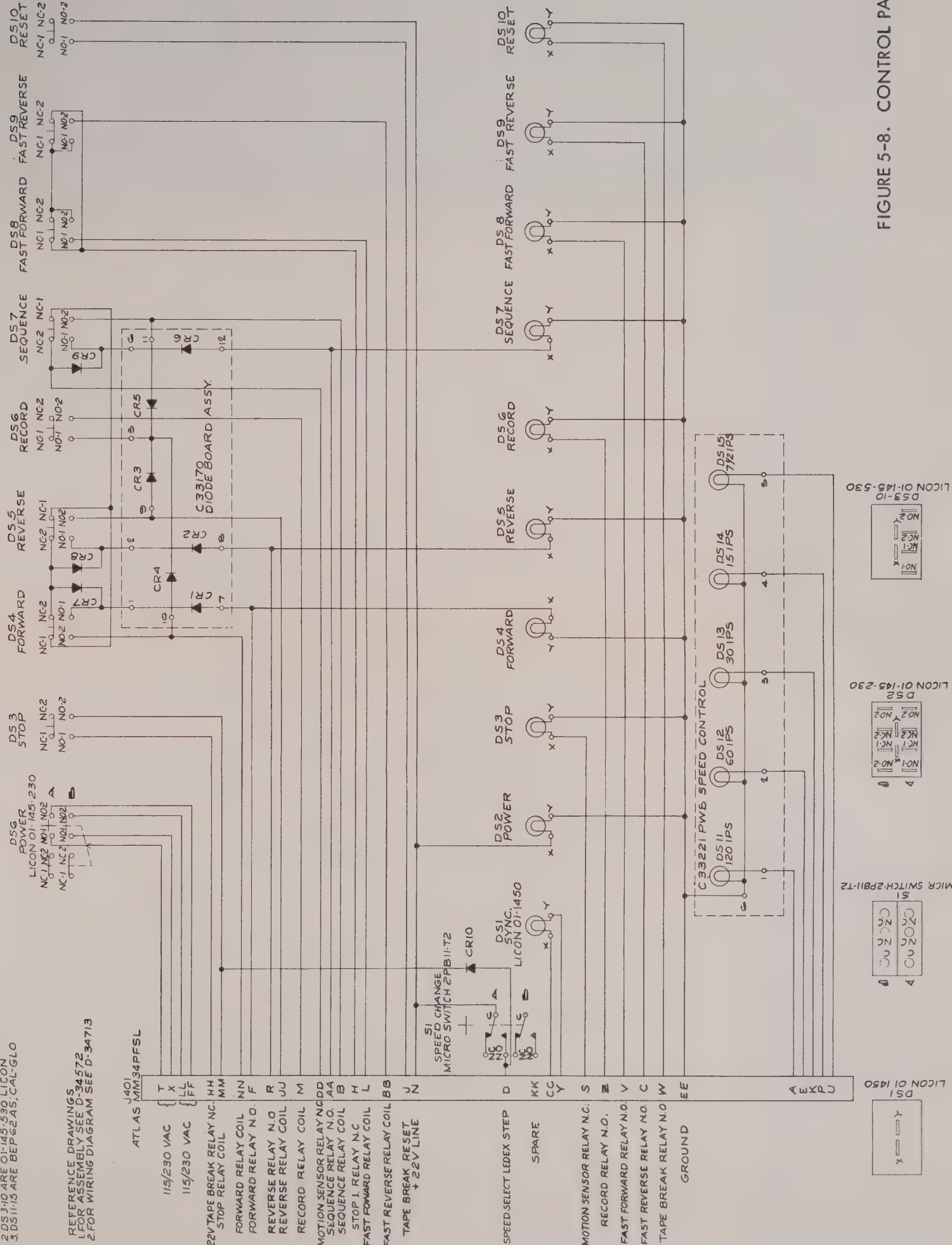


FIGURE 5-8. CONTROL PANEL, SCHEMATIC 34573

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. FOR SCHEMATIC SEE D-34567 FOR ASSY SEE D-34566.
- 2. ALL WIRES ARE TEFLON NO. 24 AWG, FOR STRAPPING USE BUS WIRE.
- 3. DESIGNATIONS ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY APPEAR ON PART.

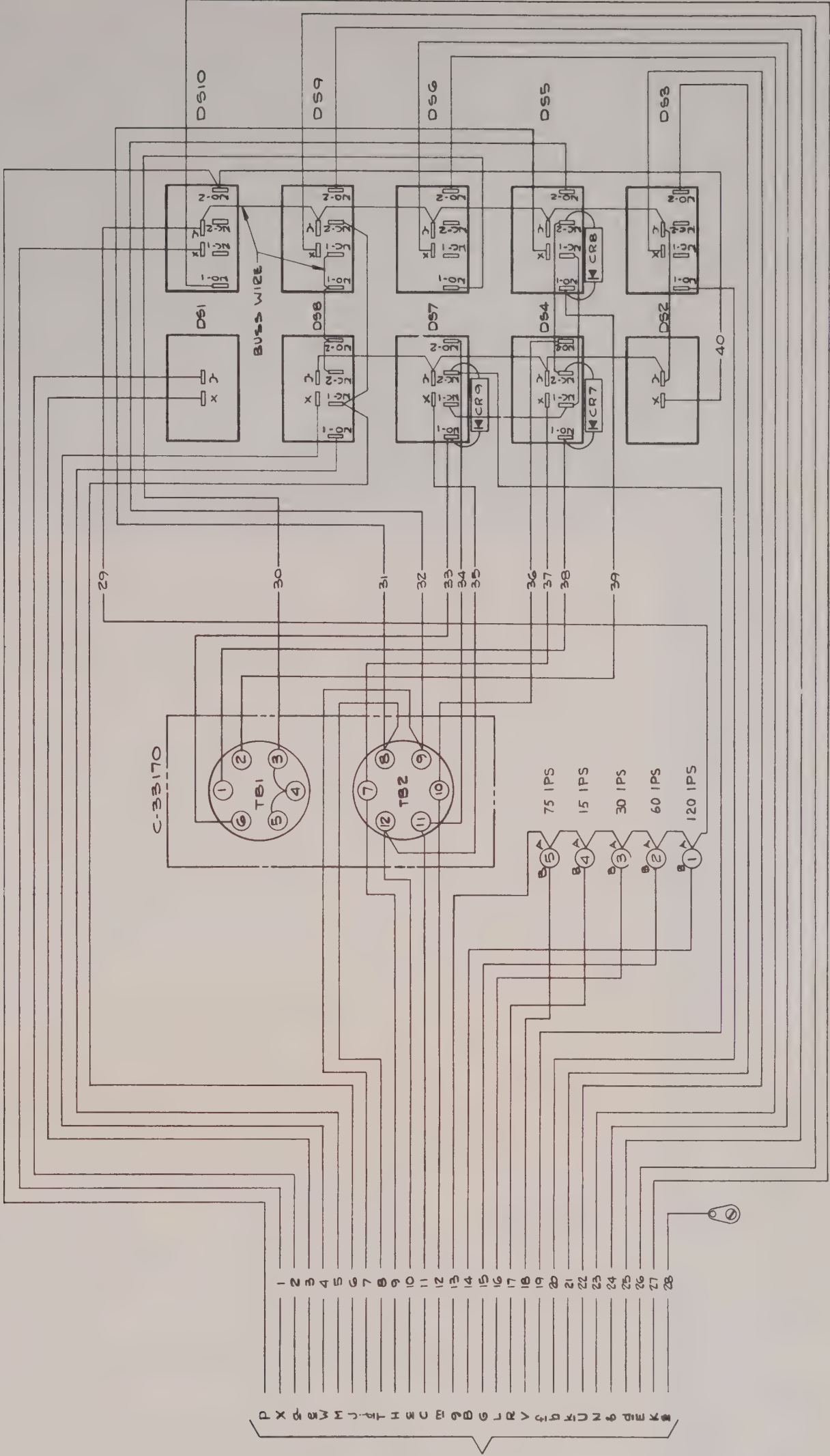


FIGURE 5-9. REMOTE CONTROL, WIRING DIAGRAM 34923

NOTES: UNLESS OTHERWISE SPECIFIED
 1. FOR ASSEMBLY SEE 0-34566 FOR
 WIRING DIAG. SEE 0-34923
 2. CR1-CR10 ARE IN 277 (0-152) DIODE U.C.

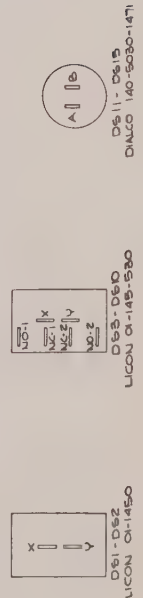
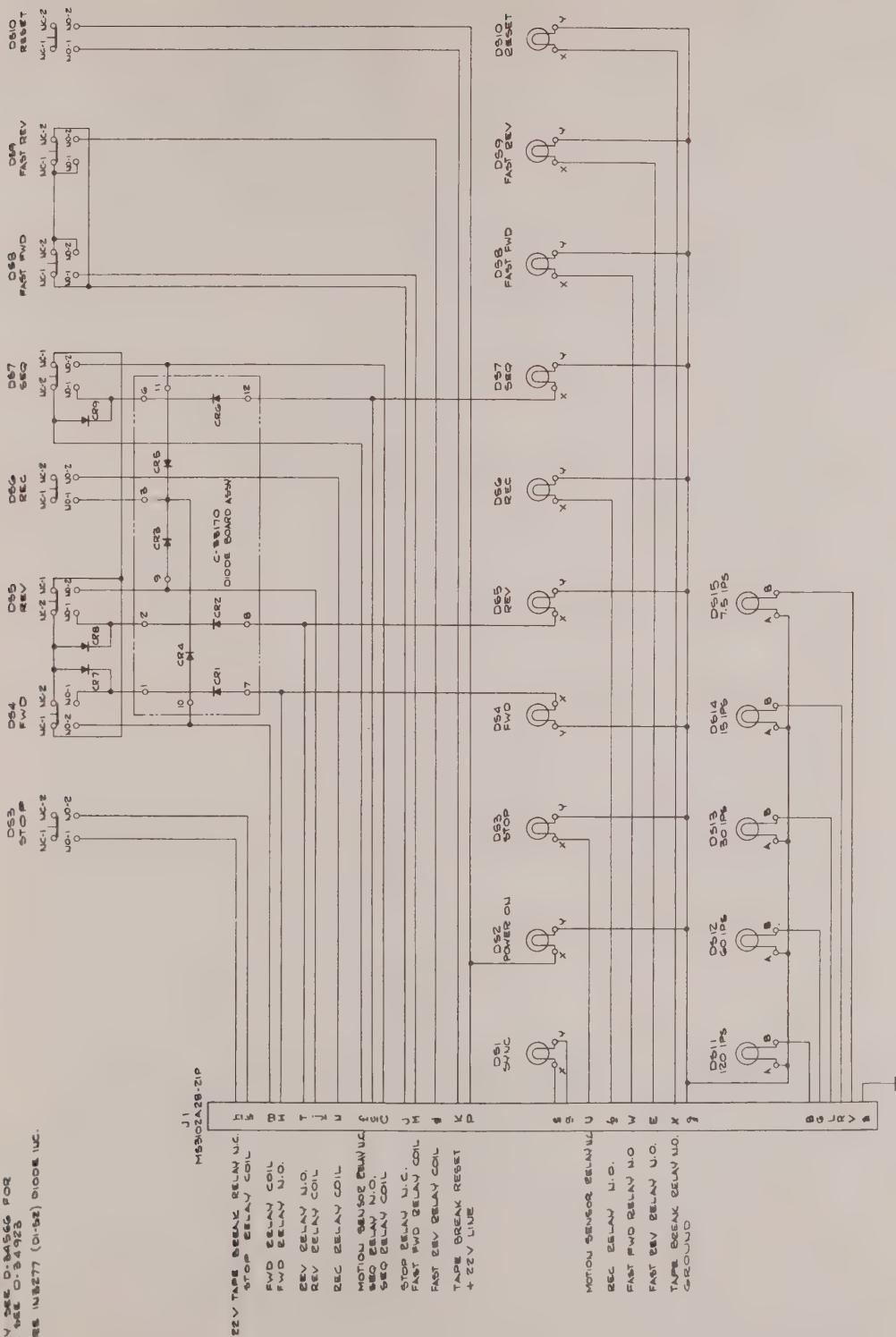


FIGURE 5-10. REMOTE CONTROL, SCHEMATIC 34567

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NOTES: UNLESS OTHERWISE NOTED

1. ALL RESISTOR VALUES ARE IN OHMS, $\pm 5\%$, $\frac{1}{4}$ WATT
2. ALL CAPACITOR VALUES ARE IN MICROFARADS

REFERENCE:
1. FOR ASSY. SEE DWG 34G90



5-78

NOTES: UNLESS OTHERWISE NOTED

1. ALL RESISTOR VALUES ARE IN OHMS, $\pm 5\%$, $1/4$ WATT
2. ALL CAPACITOR VALUES ARE IN MICROFARADS

CAPACITOR	C9
RESISTOR	R23
DIODE	CR30
RELAY	K8

REFERENCE:
1. FOR ASSEMBLY SEE DWG 34604

→35(K-LOGIC NO.1)
→34CAPSTAN MOTION SENSOR
→39END USE TAPE PHOTO-CELL EMITTER

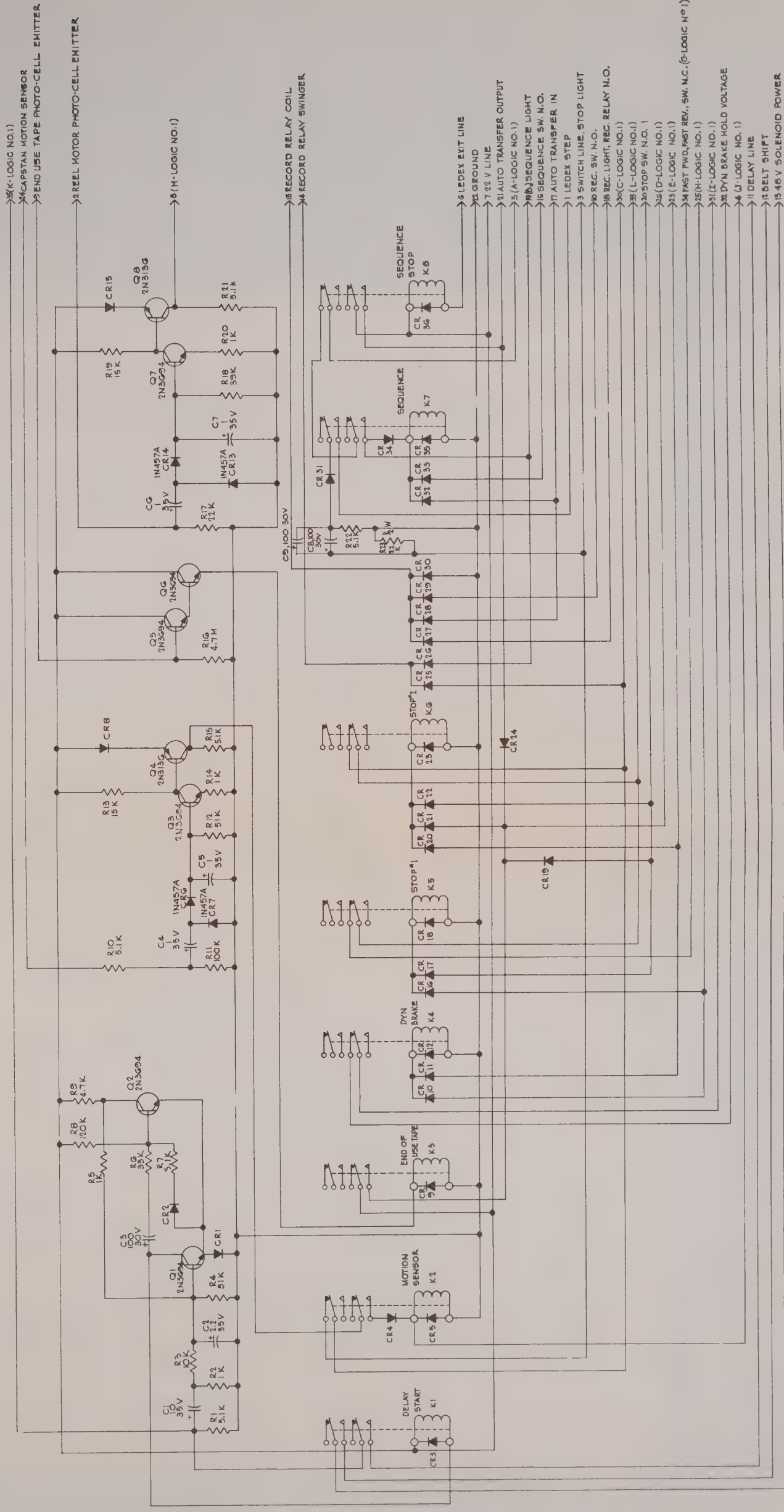
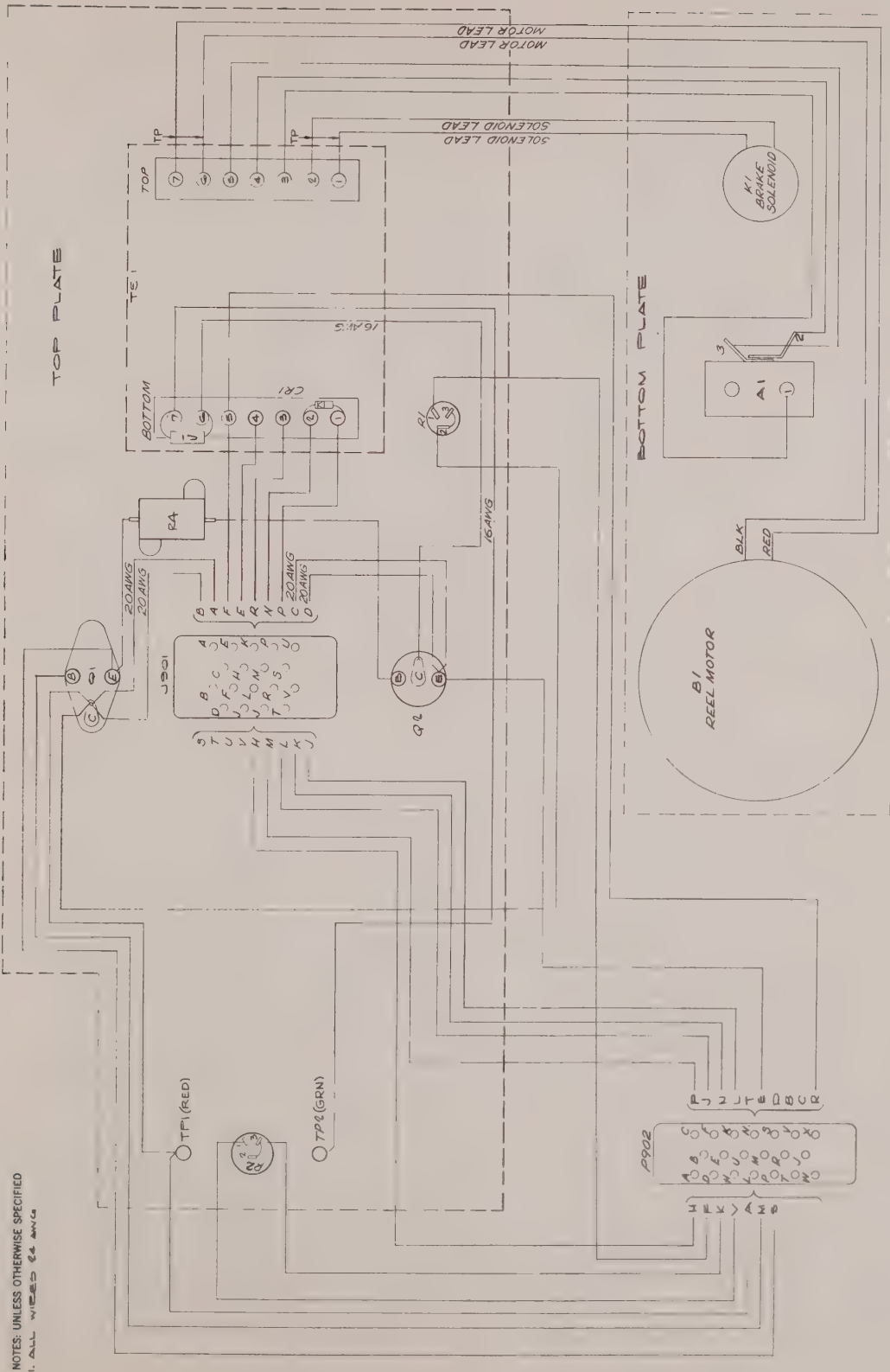


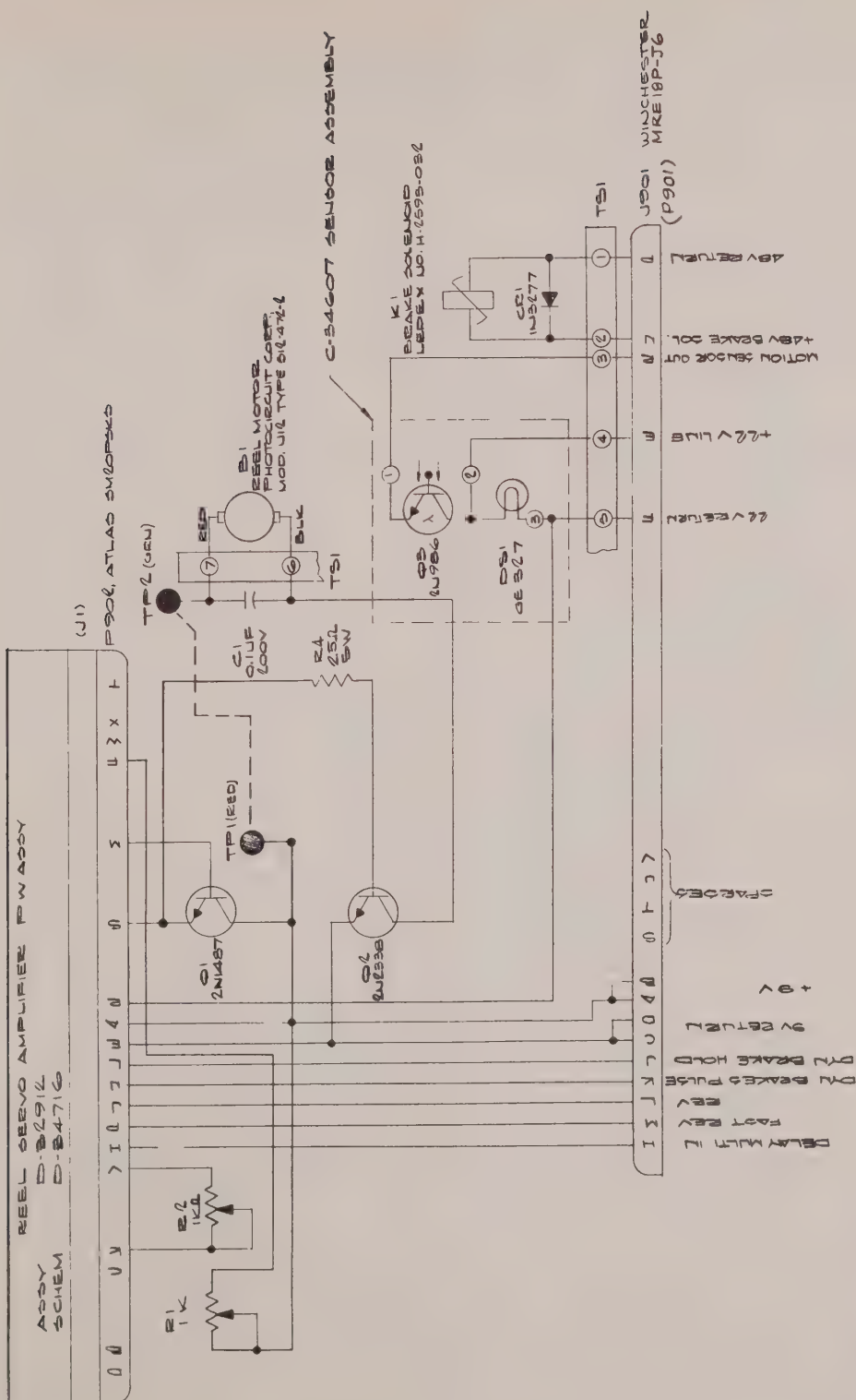
FIGURE 5-12. CONTROL LOGIC BOARD NO 2, SCHEMATIC 34695



REFERENCE DRAWINGS
 1. FOR SCHEMATIC SEE C-34577
 2. FOR ASSY SEE E-34576-1

FIGURE 5-13. UPPER REEL MOTOR, WIRING DIAGRAM 34718

2. R3 DELETED



2. FOR WINDING DIAGRAM SEE D-34718

FIGURE 5-14. UPPER REEL MOTOR, SCHEMATIC 34577

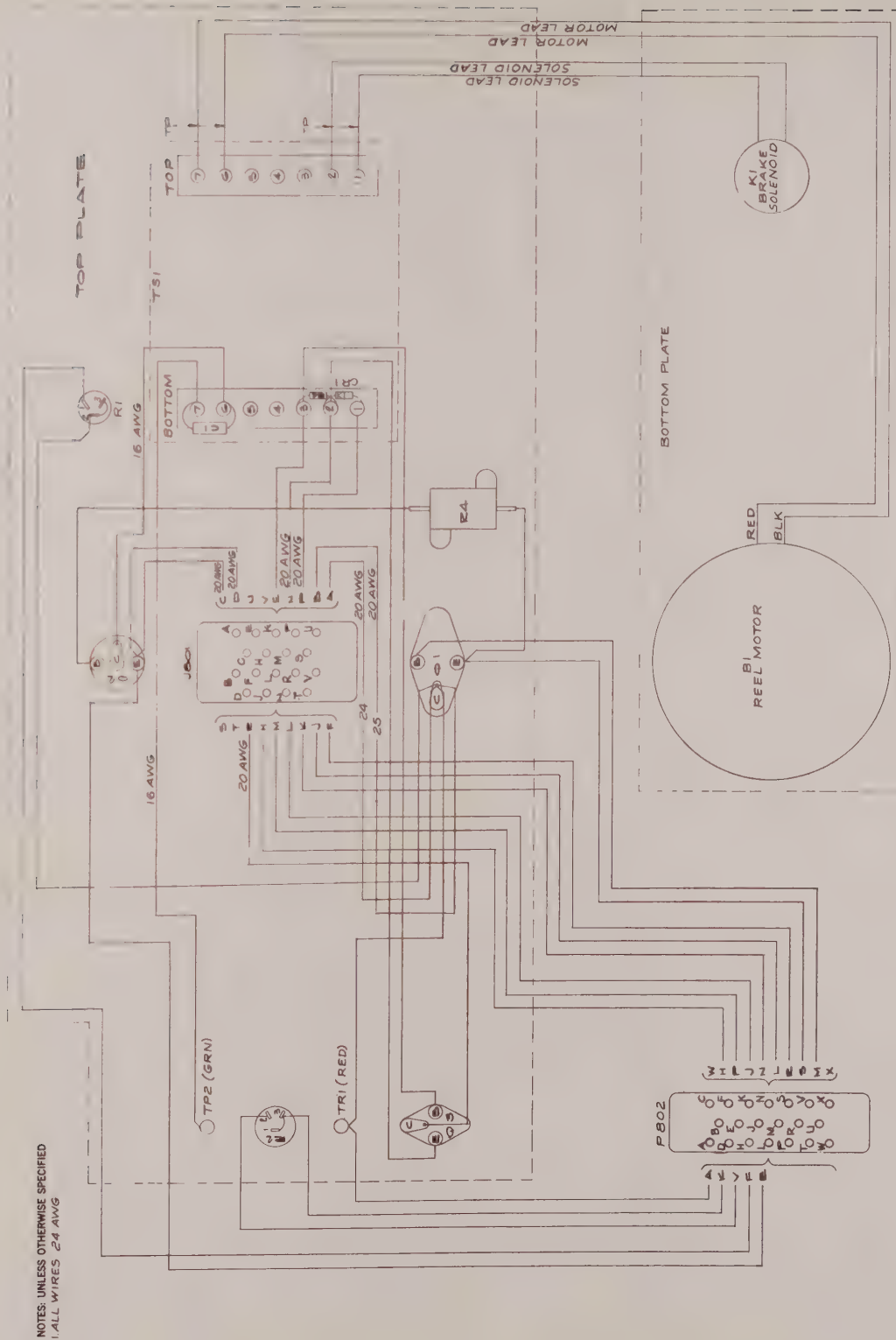


FIGURE 5-15. LOWER REEL MOTOR, WIRING DIAGRAM 34719

1. TP TEST POINTS
2. R3 DELETED

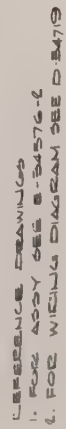


FIGURE 5-16. LOWER REEL MOTOR, SCHEMATIC 34579

- NOTES: UNLESS OTHERWISE NOTED
 1. ALL RESISTOR VALUES ARE
 IN OHMS, 5%, 1/4 W, K51000.
 2. CR2 THRU CR9 ARE IN 457A
 3. ALL RELAYS (K1, K2 & K3)
 ARE 1/2 CRYSTAL CAN, DDDT,
 26.5 VDC.
 4. HIGHEST NO. USED:
 RESISTOR R8
 DIODE CR9
 RELAY K3

REFERENCE
 1. FOR ASSY SEE DWG D-34568

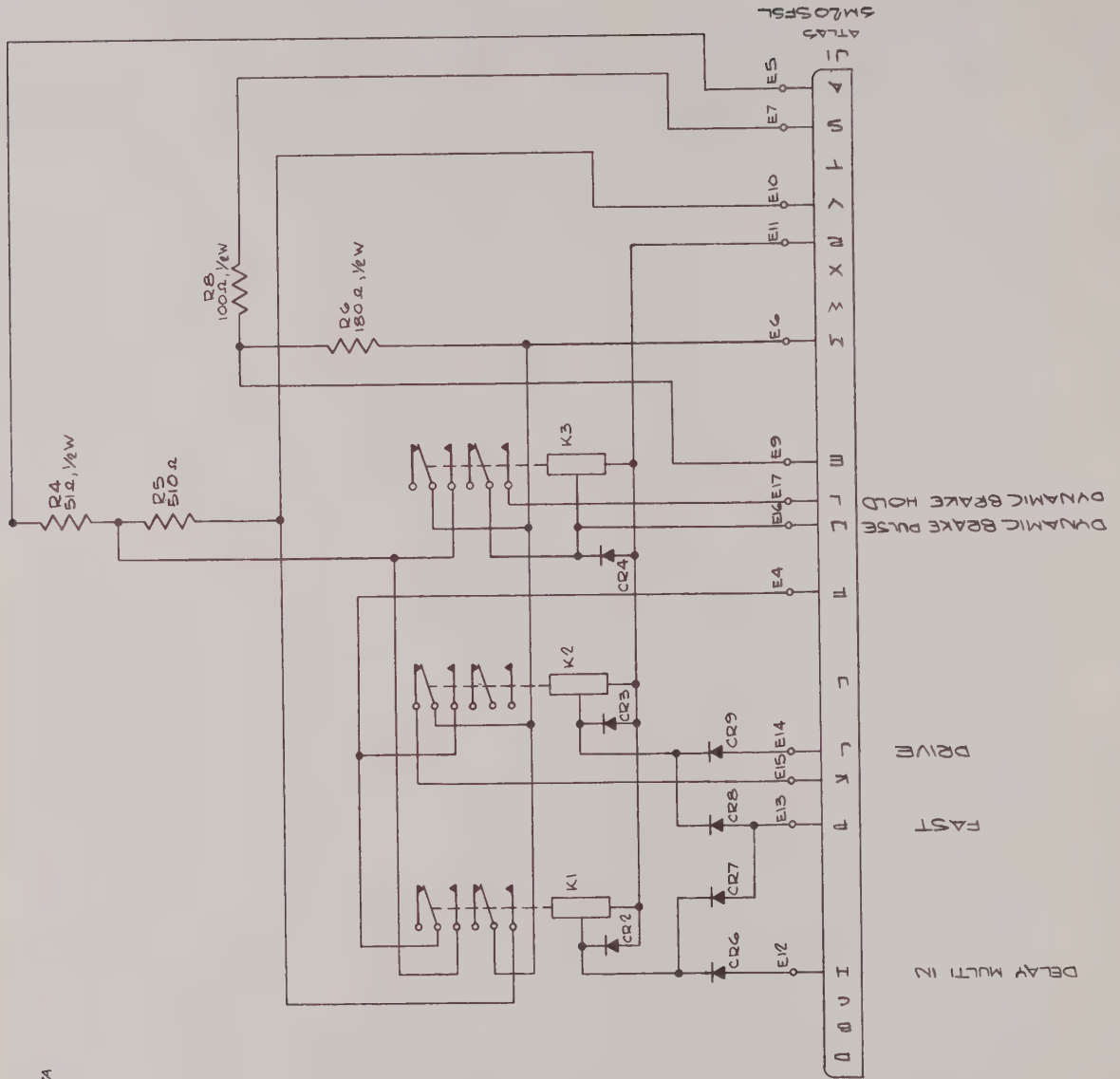


FIGURE 5-17. REEL SERVO AMPLIFIER, SCHEMATIC 34716

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL DIODES ARE DIODE INC. NO. D152 (IN3277)
 2. ALL RESISTORS ARE MIL SPEC NO. RC076152J
 3. ALL TRANSISTORS ARE R.C.A. NO. 2N3054
 4. CAPACITOR IS ELECTROCUBE NO. 610D-1C104J
 5. HIGHEST COMPONENT NO. USED:
DIODE: CR5, RESISTOR: R3, CAPACITOR: C1
TRANSISTOR: Q3, SOLENOID: K5, MOTOR: B1
- WINCHESTER NO. MRA14P-JTCGH
P702

REFERENCE DRAWINGS:

PRECISION PLATE ASSY E-24530 } FOR
WIRING DIAGRAM D-34746 } P-51148

PRECISION PLATE ASSY E-34925 } FOR
WIRING DIAGRAM D-34927 } W-7000

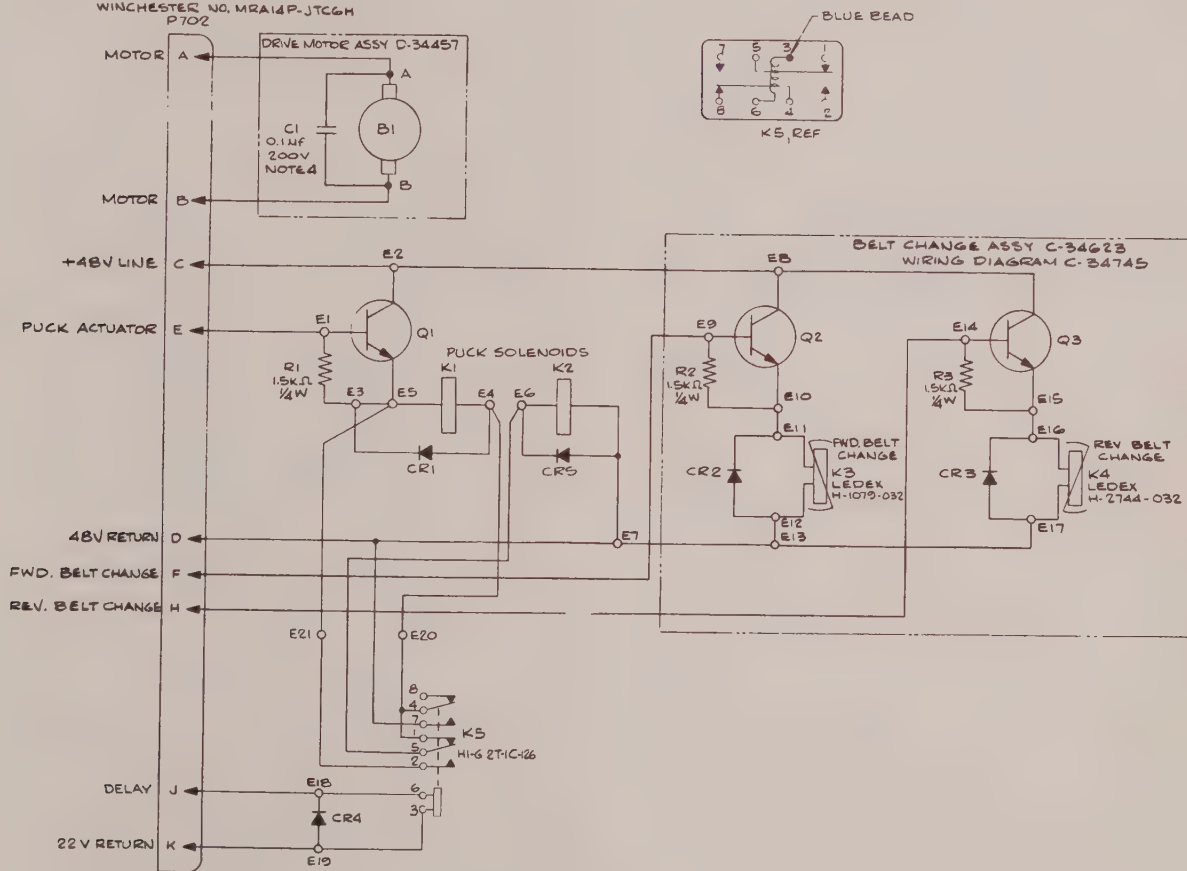


FIGURE 5-18. PRECISION PLATE ASSEMBLY, SCHEMATIC 34581

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL WIRE : 20AWG, TEFLON
COVERED, BLACK, MIL-W-16878, TYPE E

REFERENCE DRAWINGS:
SCHEMATIC C-34581
BELTCHANGE ASSY C-34623

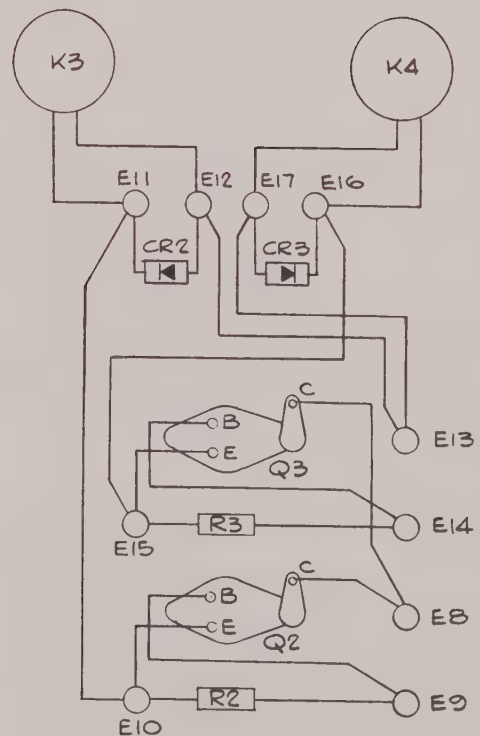
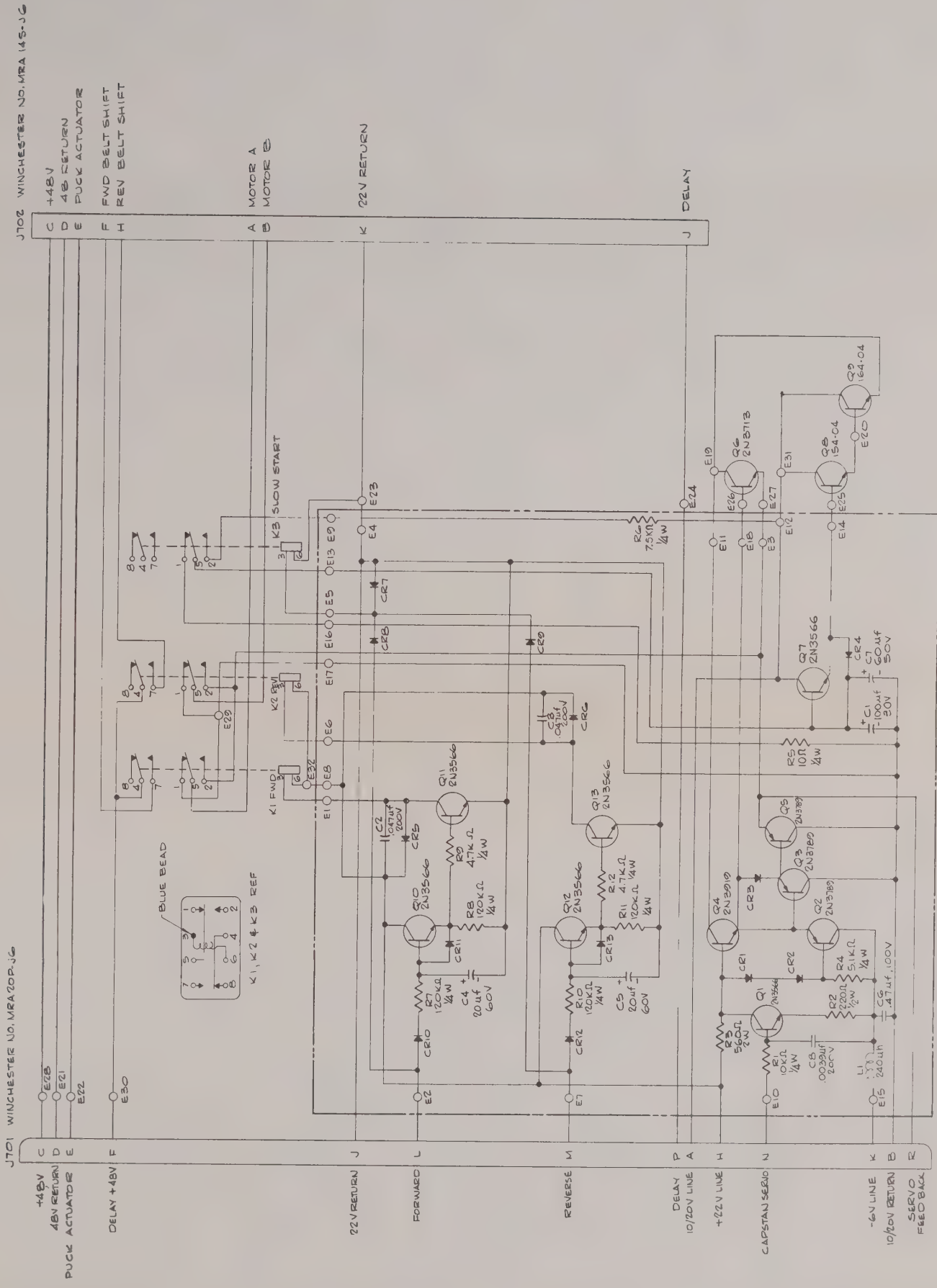


FIGURE 5-19. BELT CHANGE ASSEMBLY, WIRING DIAGRAM 34745

NOTES: UNLESS OTHERWISE SPECIFIED
 1 ALL DIODES ARE DIODE INC. DI-52 (IN327T)
 2 ALL RELAYS ARE HI-G NO. 27-1D-126
 3 HIGHEST COMPONENT NO. USED:
 DIODE: CR3, RES: STOR: R12, CAPACITOR: C
 TRANSISTOR: Q13, RELAY: K3, CHOKE: L1



REFERENCE DRAWINGS:
WIRE LIST A-34923
CAPSTAN SERVO POWER AMPL. ASSY. D-34582

PRINTED WIRING ASSY D-34697

FIGURE 5-20. CAPSTAN SERVO POWER AMPLIFIER, SCHEMATIC 34583

1. ALL RESISTOR VALUES ARE IN OHMS, $1K$, $10K$, $100K$, $1M$, $10M$, $100M$, $1000M$
2. ALL CAPACITOR VALUES ARE IN MICROFARADS

3. HIGHEST NR USED:
 CAPACITOR C13
 RESISTOR R21
 DIODE CR5
 RELAY K5
 TRANSISTOR Q5
 CRYSTAL U1
 CHORE L1
 MODULE DD
 TRANSISTOR Q2
 TEST POINT TPI

REFERENCE:
 FOR ASSEMBLY SEE DRAWING 34684

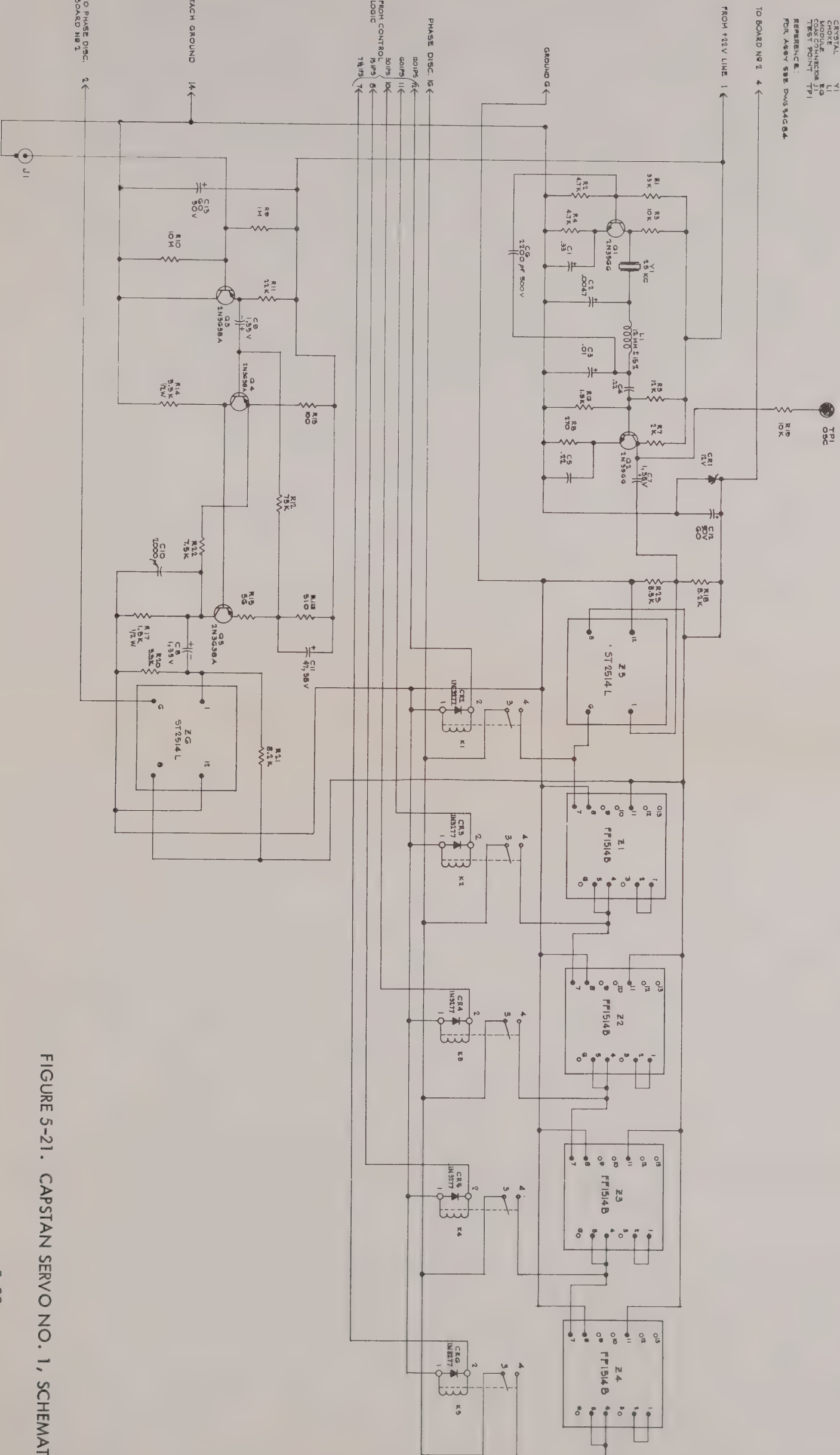


FIGURE 5-21. CAPSTAN SERVO NO. 1, SCHEMATIC 34685



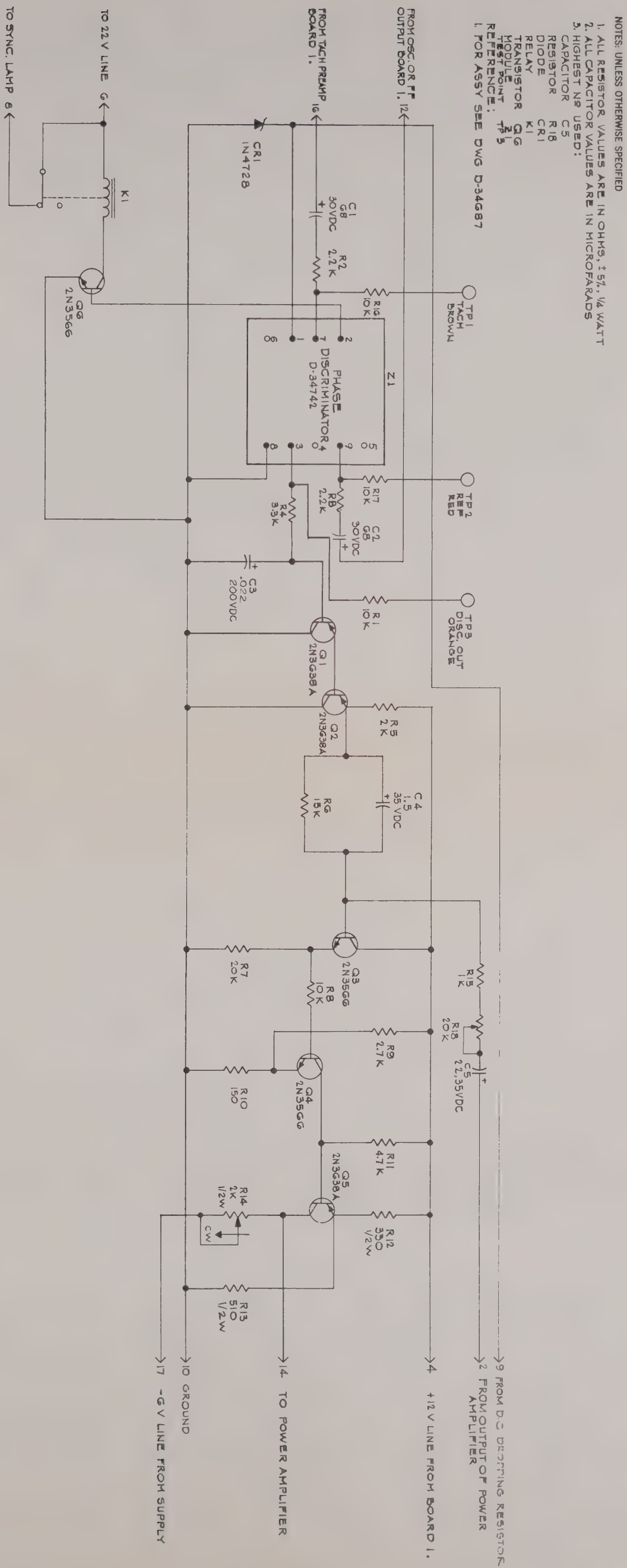


FIGURE 5-22. CAPSTAN SERVO NO. 2, SCHEMATIC 34688

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTOR VALUES IN OHM $\pm 5\%$ $\frac{1}{4}$ WATT.
 2. ALL CAPACITOR VALUES IN MICROFARAD $\pm 5\%$, 500V.
 3. ALL INDUCTOR VALUES IN MICROHENRY
 4. INDICATES TEST POINTS
 5. HIGHEST USED REFERENCE DESIGNATIONS
 6. ARE R26, C17, L3, Q7, T2, CR3 & TP2
 7. TRIM VALUES, IF REQUIRED, TO BE SELECTED IN TEST.
 7. REFERENCE DESIGNATIONS NOT USED R25.

REFERENCE DRAWINGS
1. FOR ASSEMBLY SEE DRAWING D-34433

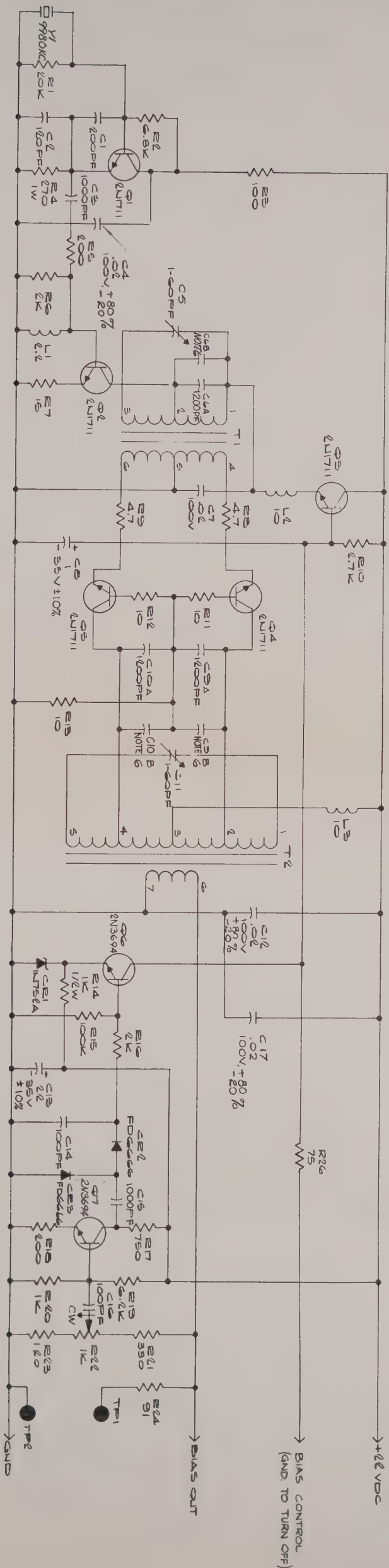


FIGURE 5-24. BIAS OSCILLATOR AND BUFFER, SCHEMATIC 34434

NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTOR VALUES IN OHMS, 5% TOLERANCE
2. ALL CAPACITOR VALUES IN MICROFARADS
3. ALL INDUCTOR VALUES IN MICROHENRY
4. 0 INDICATES TEST POINTS
5. HIGHEST USED REFERENCE DESIGNATIONS ARE E20, C13, C6, L6, C24, TP3, T1 & K1
6. TRIM VALUES, IF REQUIRED, TO BE SELECTED IN TEST
7. REFERENCE DESIGNATIONS NOT USED R21

REFERENCE DRAWINGS:
1. FOR ASSEMBLY SEE DRAWING D3416

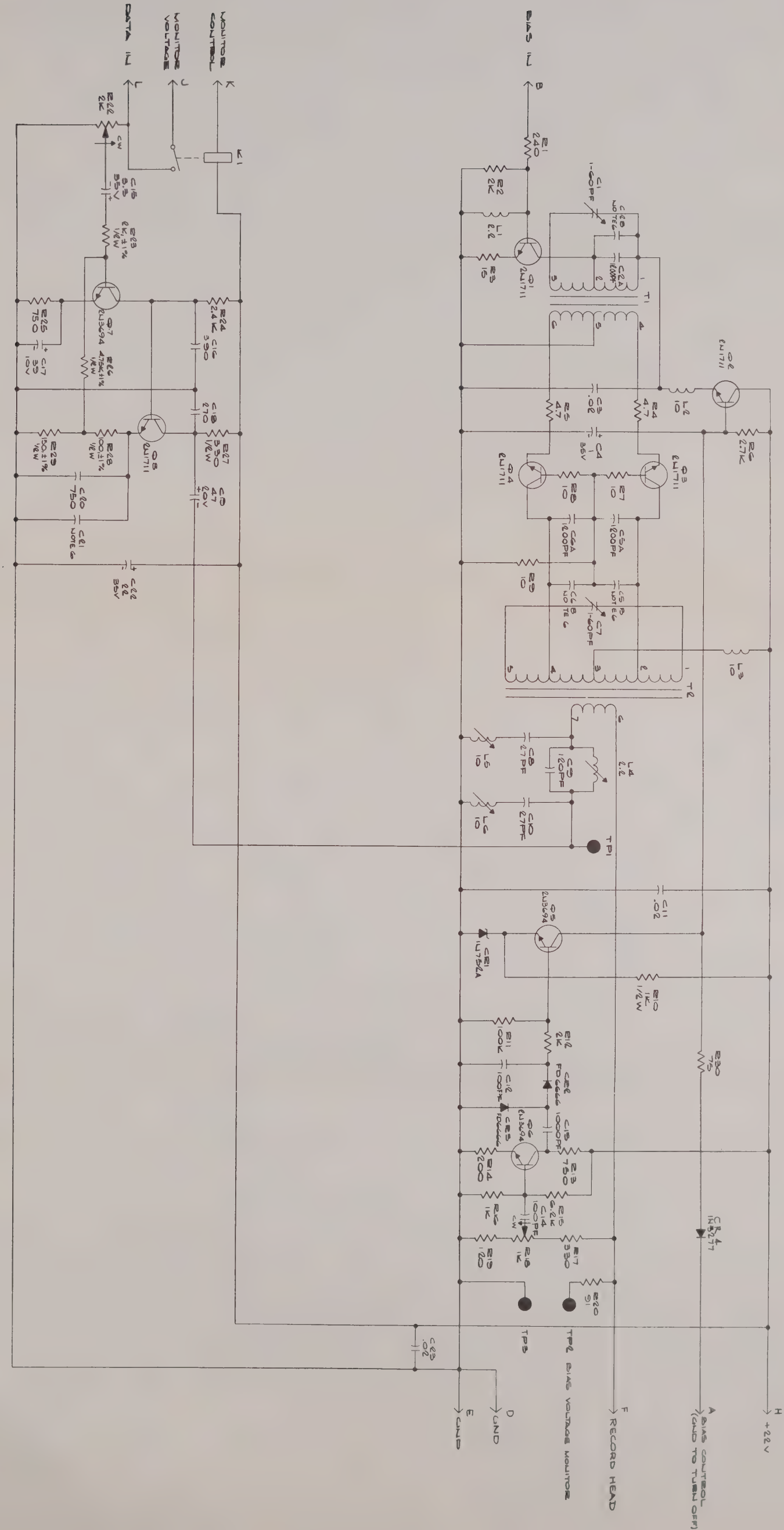


FIGURE 5-25. RECORD AMPLIFIER, SCHEMATIC 34416

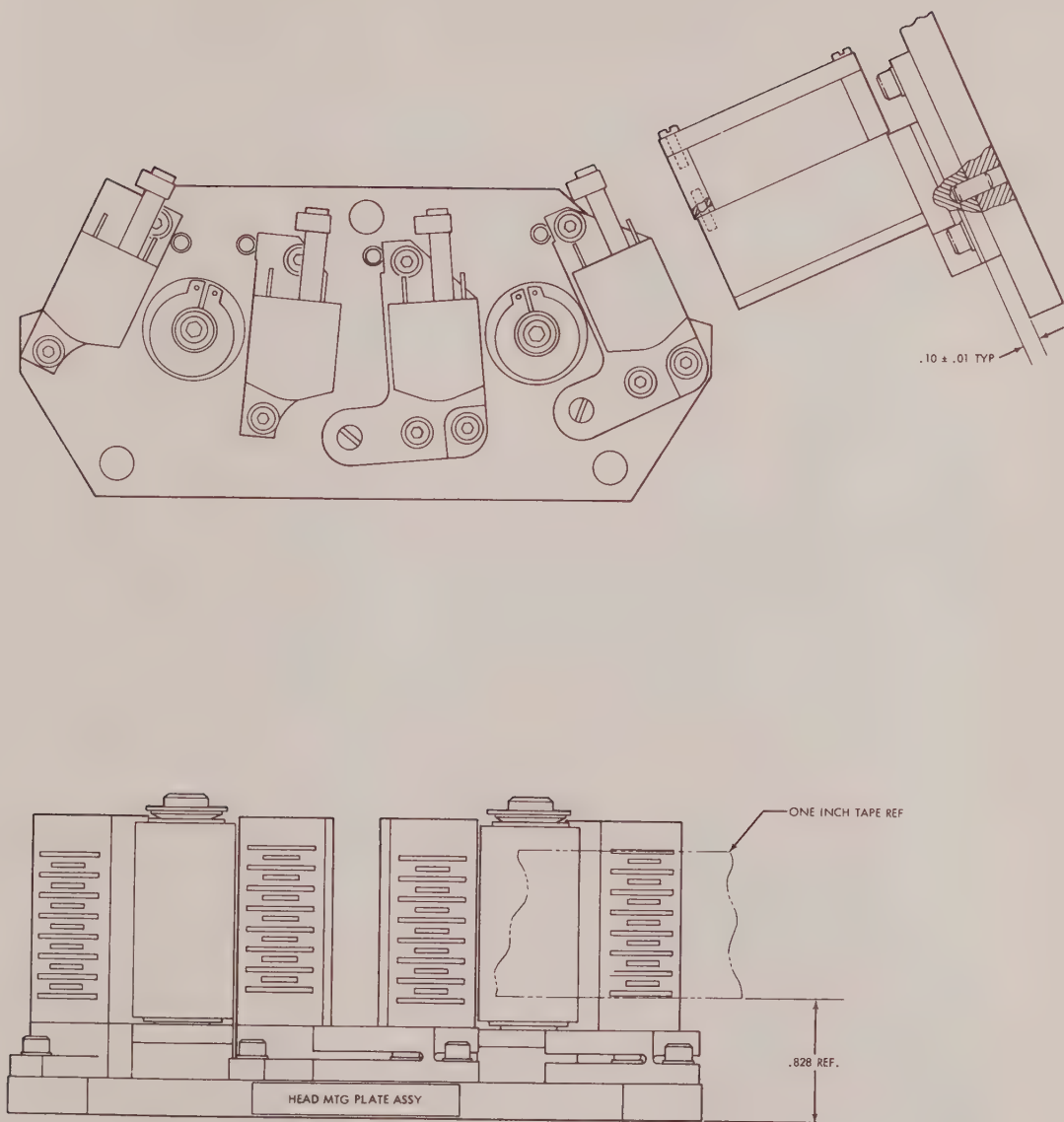


FIGURE 5-26. HEAD MOUNTING PLATE ASSEMBLY,
1-INCH TAPE 34574

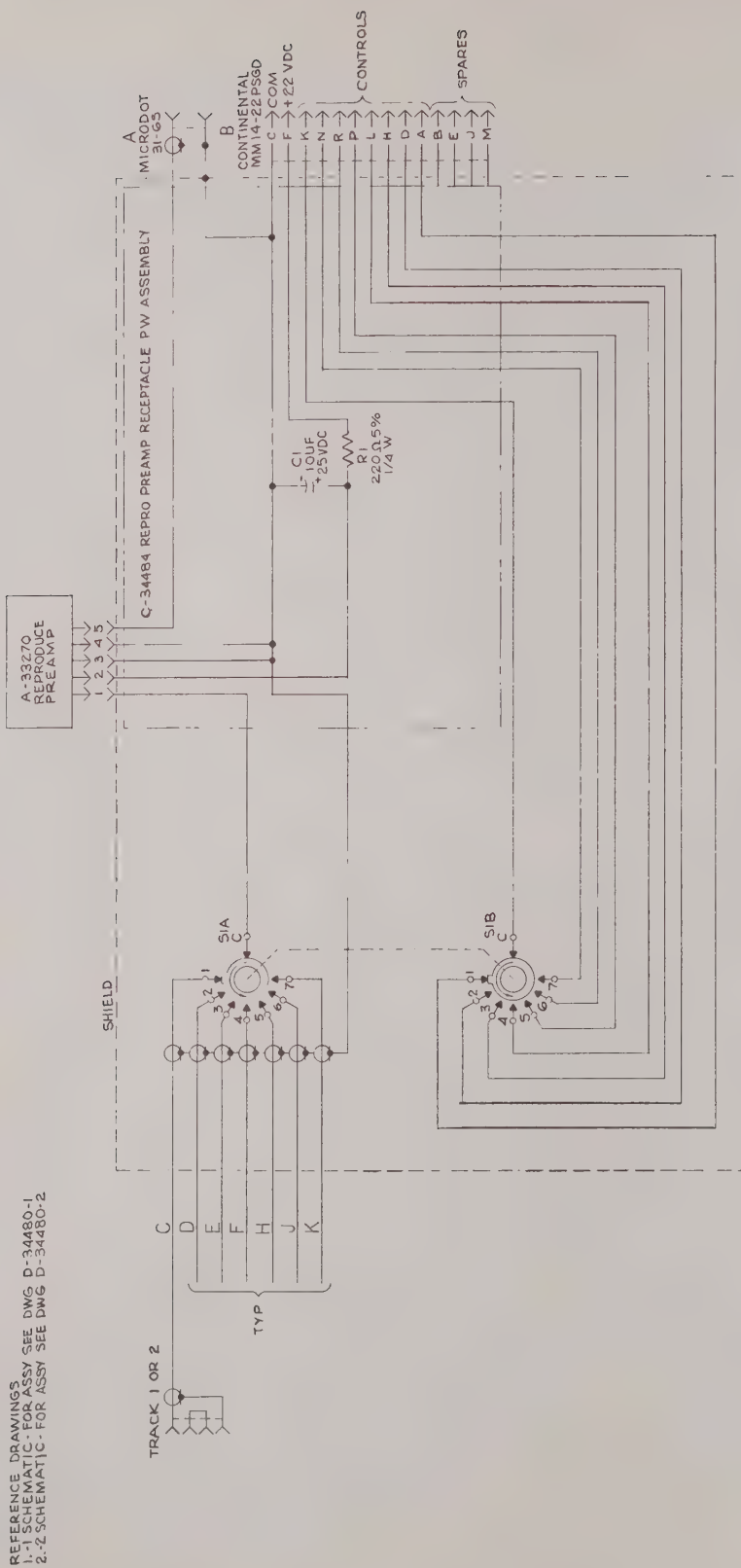
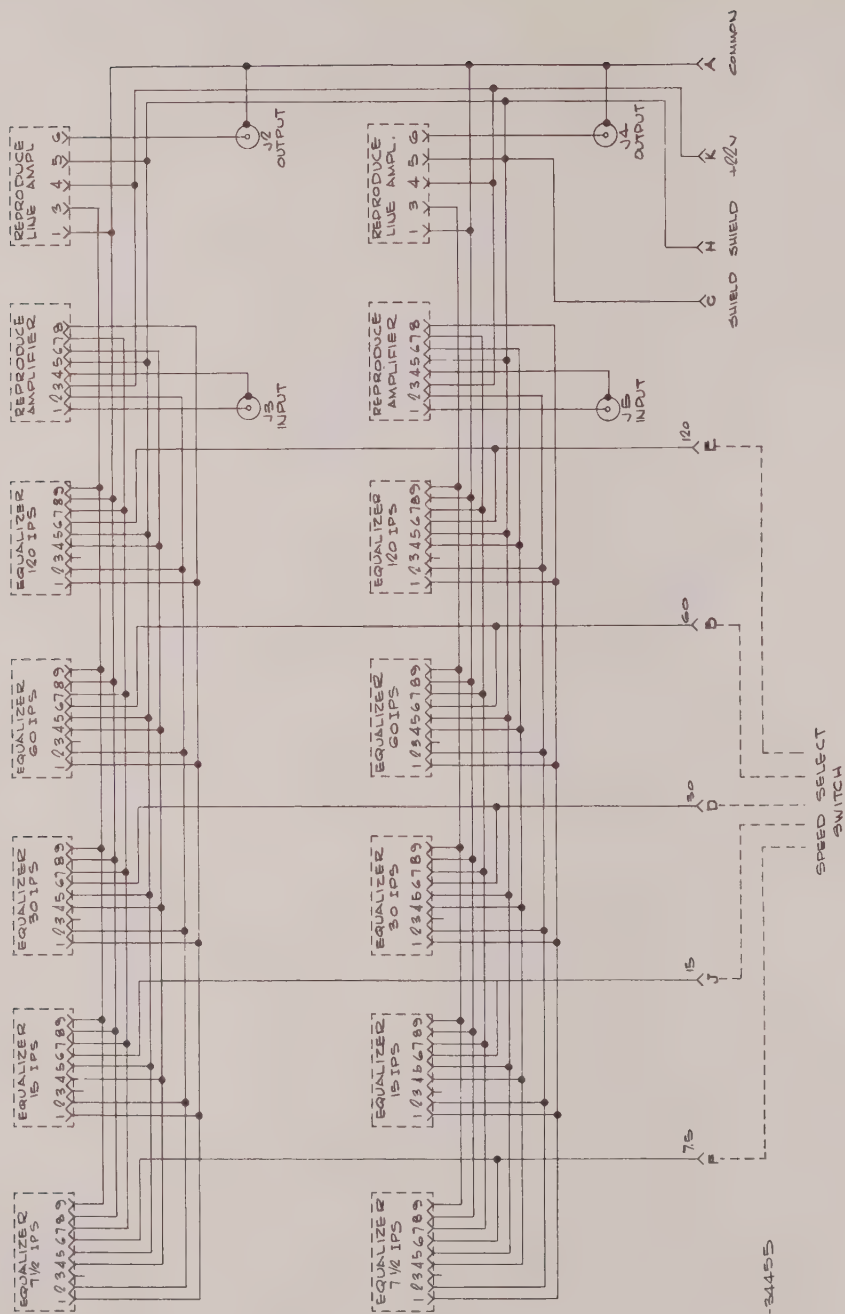


FIGURE 5-27. REPRODUCE HEAD SWITCH, SCHEMATIC 34620



REFERENCE:
1. ASSEMBLY DWS No. D-34455

FIGURE 5-29. REPRODUCE MOTHERBOARD, SCHEMATIC 34456

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTORS ARE 1/4 WATT, 5% TOLERANCE
 AND ARE RATED AT 144V ± 10%
 2. ALL CAPACITOR VALUES ARE GIVEN IN μ F
 AND ARE RATED AT 100V ± 10%
 3. ALL INDUCTOR VALUES ARE GIVEN IN μ H

REFERENCE:
 ASSY DWG NO. E-73280

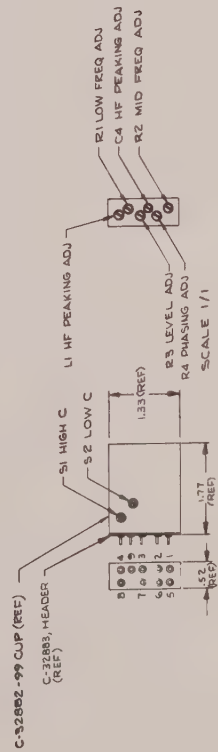
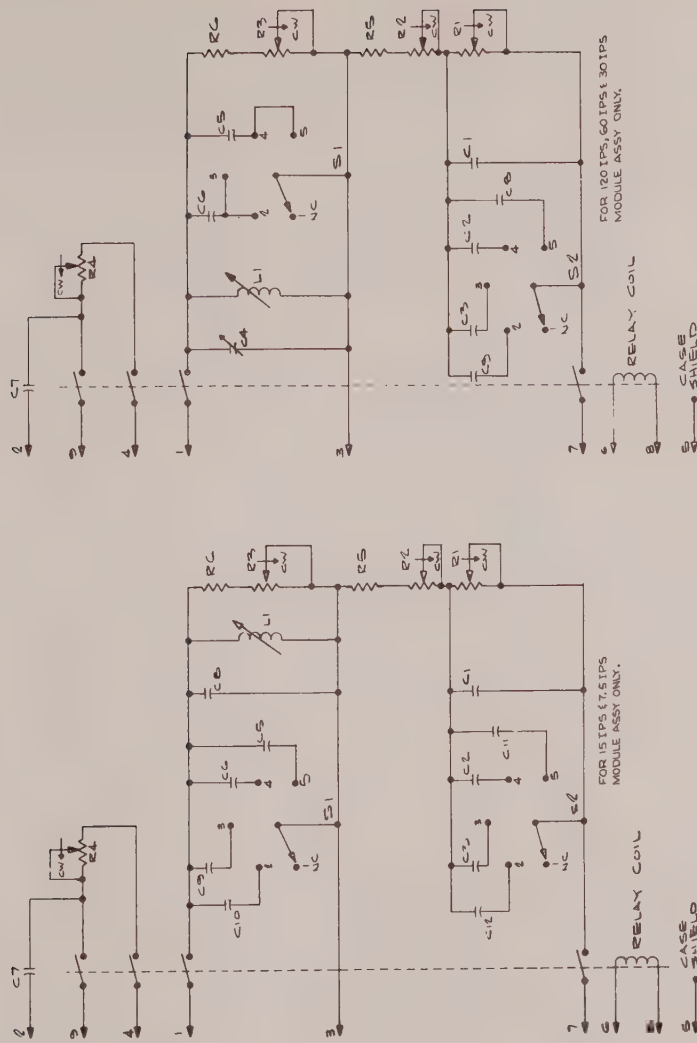


FIGURE 5-30. EQUALIZER REPRODUCE 1102A THRU 1106A
 (2.0 MC SYSTEM), SCHEMATIC 32881

NOTES: UNLESS OTHERWISE SPECIFIED

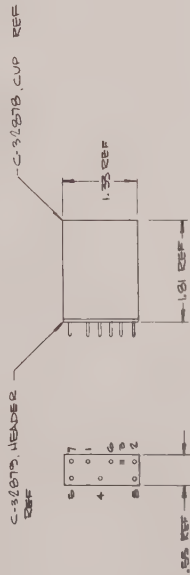


FIGURE 5-31. REPRODUCE AMPLIFIER, SCHEMATIC 32877

REFERENCE:

U 1103
MRE 41P-J6

MONITOR 1
M1 DB

MONITOR 2
M2 DB

RECORD
D
C

REPRODUCE
E
F

RECORD
L
K

REPRODUCE
M
N

2/PASS d

4/PASS e

14/PASS f

REAR VIEW
S4

S3 & S2 REF

1	2
3	4
5	6

A1
G-33230
CHAN IND

5-99

NOTES: UNLESS OTHERWISE SPECIFIED
1. WIRING SIDE OF CONNECTOR SHOWN.

REFERENCE:
1. FOR ASSY SEE D-34491.
2. SCHEMATIC D-34705.

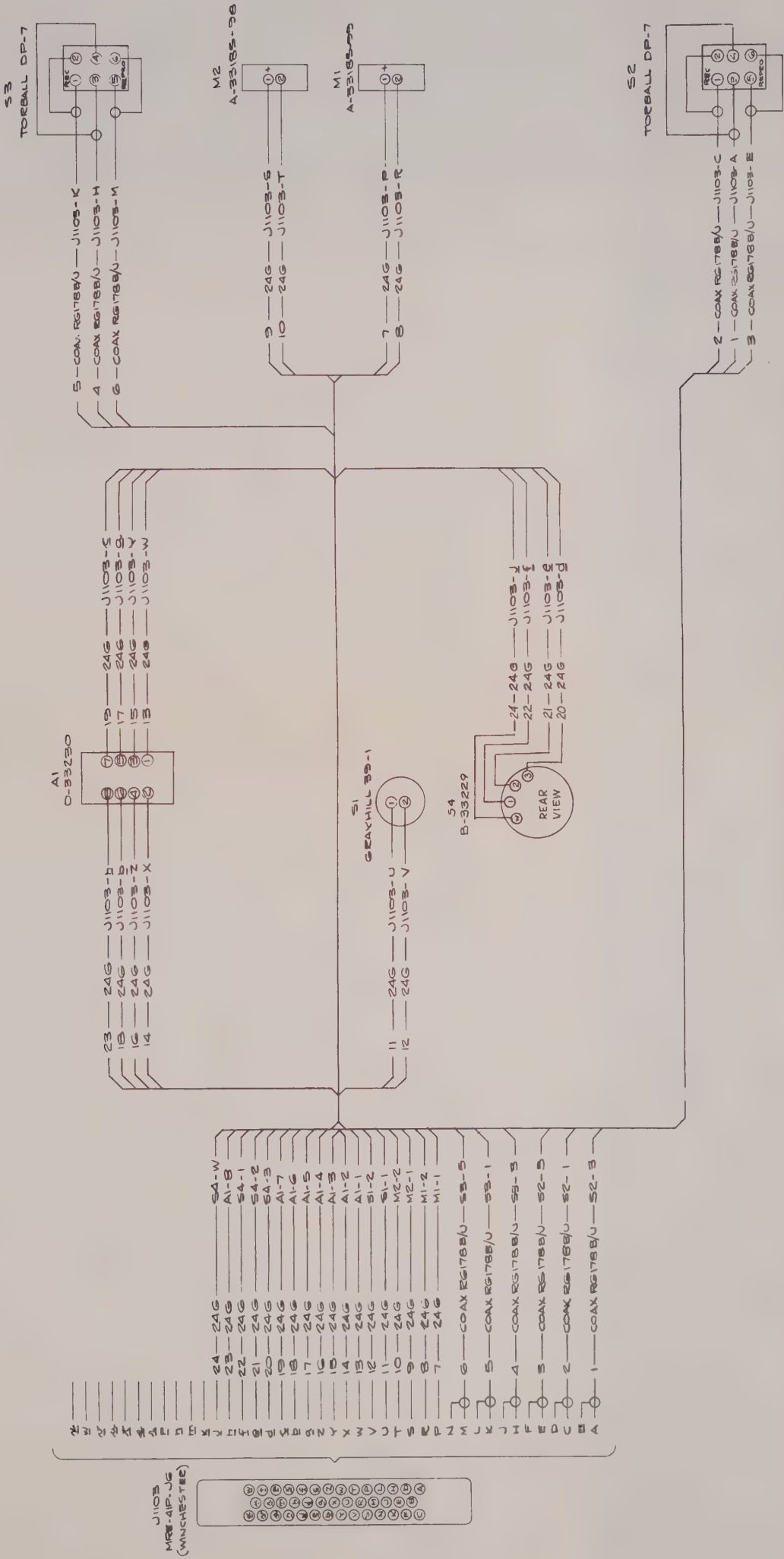


FIGURE 5-33. MONITOR AND SEQUENCE PANEL, WIRING DIAGRAM

34747

5-100

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTOR VALUES IN OHM $\pm 5\%$ 1/4 WATT
 2. ALL CAPACITOR VALUES IN MICROFARAD
 3. HIGHEST USED REFERENCE DESIGNATIONS
 ARE R54, C18, CR10 & Q16

REFERENCE DRAWINGS
 1. FOR ASSEMBLY SEE DRAWING D-34470

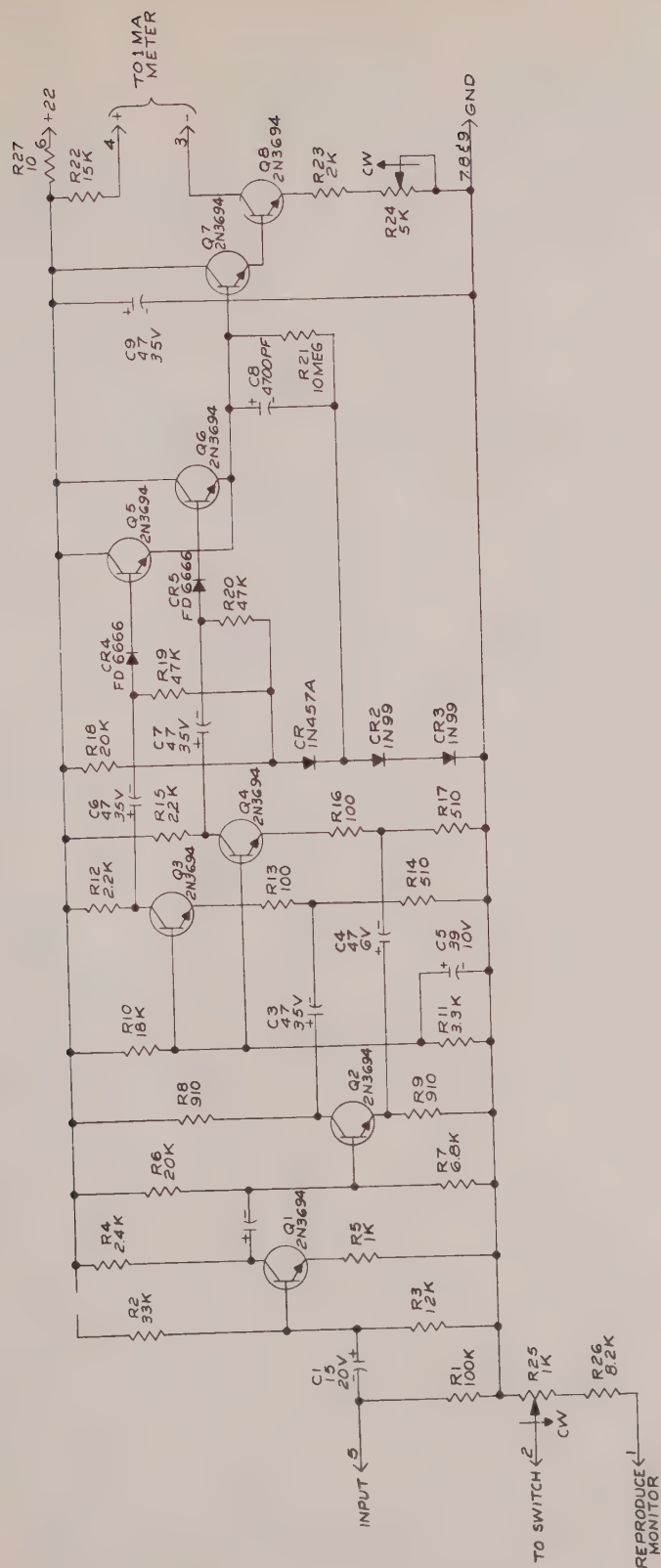


FIGURE 5-34. MONITOR METER AMPLIFIER, SCHEMATIC 34771 (SHEET 1)

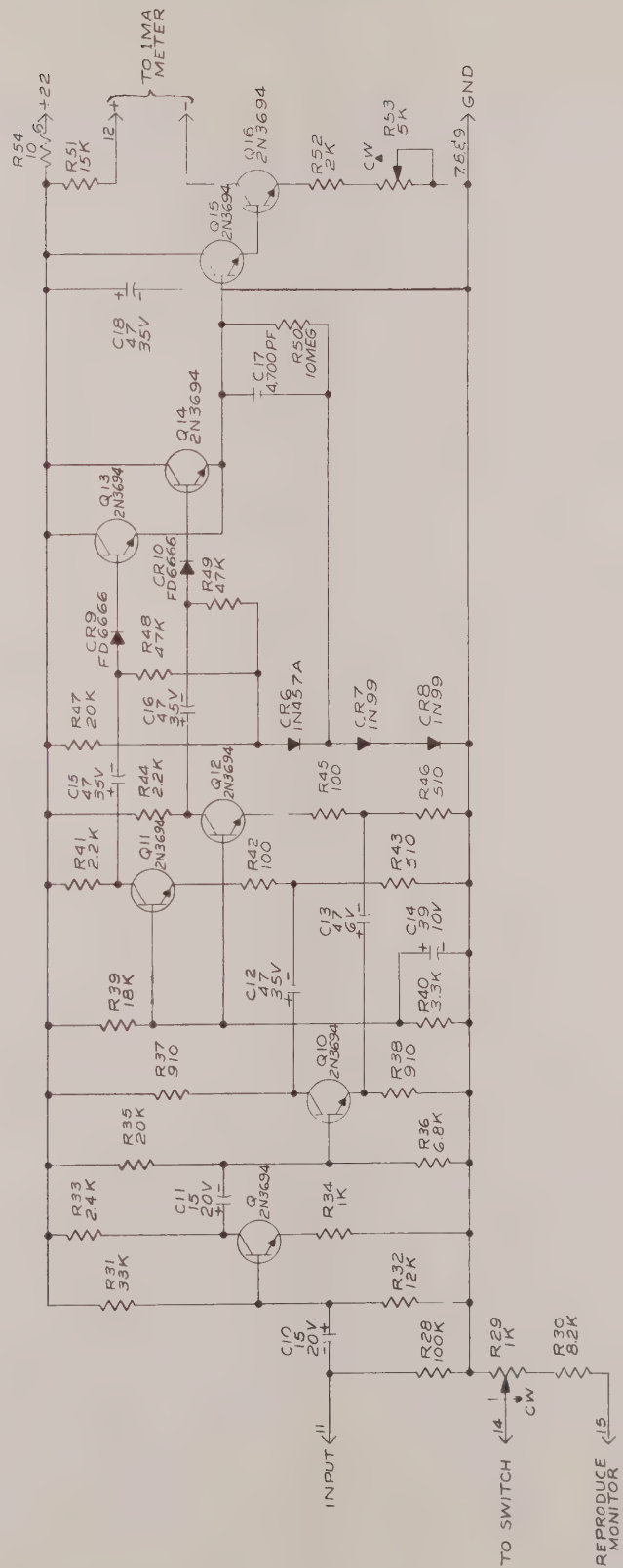


FIGURE 5-34. MONITOR METER AMPLIFIER, SCHEMATIX 34471 (SHEET 2)

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL DIVIDES ARE IN 3277.
 2. LAST REFERENCE DESIGNATION USED,
 K14, CR36

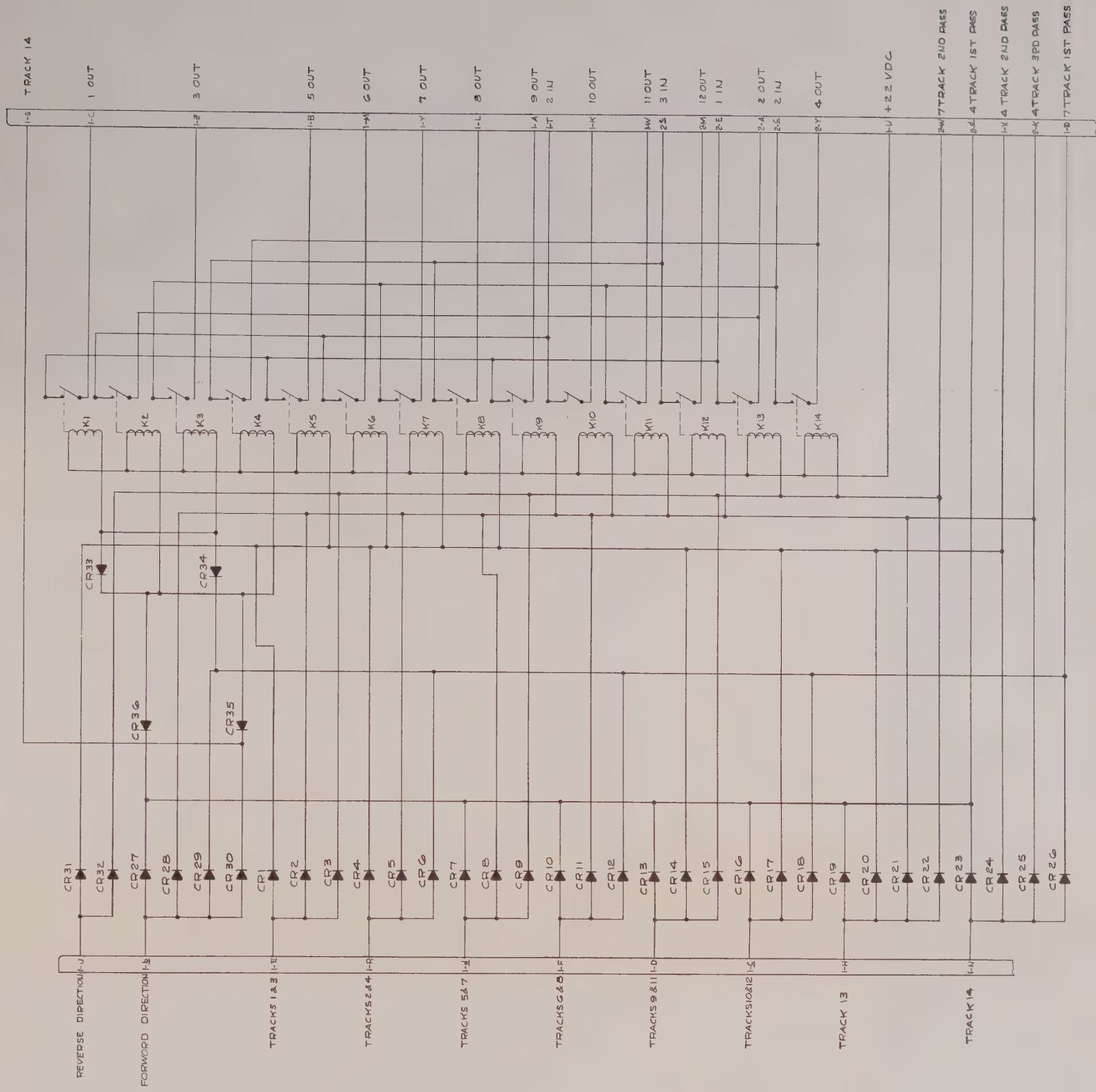


FIGURE 5-36. SERIES SEQUENCE BOARD NO. 1, SCHEMATIC 35632

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL DIODES ARE IN 3277
 2. LAST REFERENCE DESIGNATION USED K15, CR20

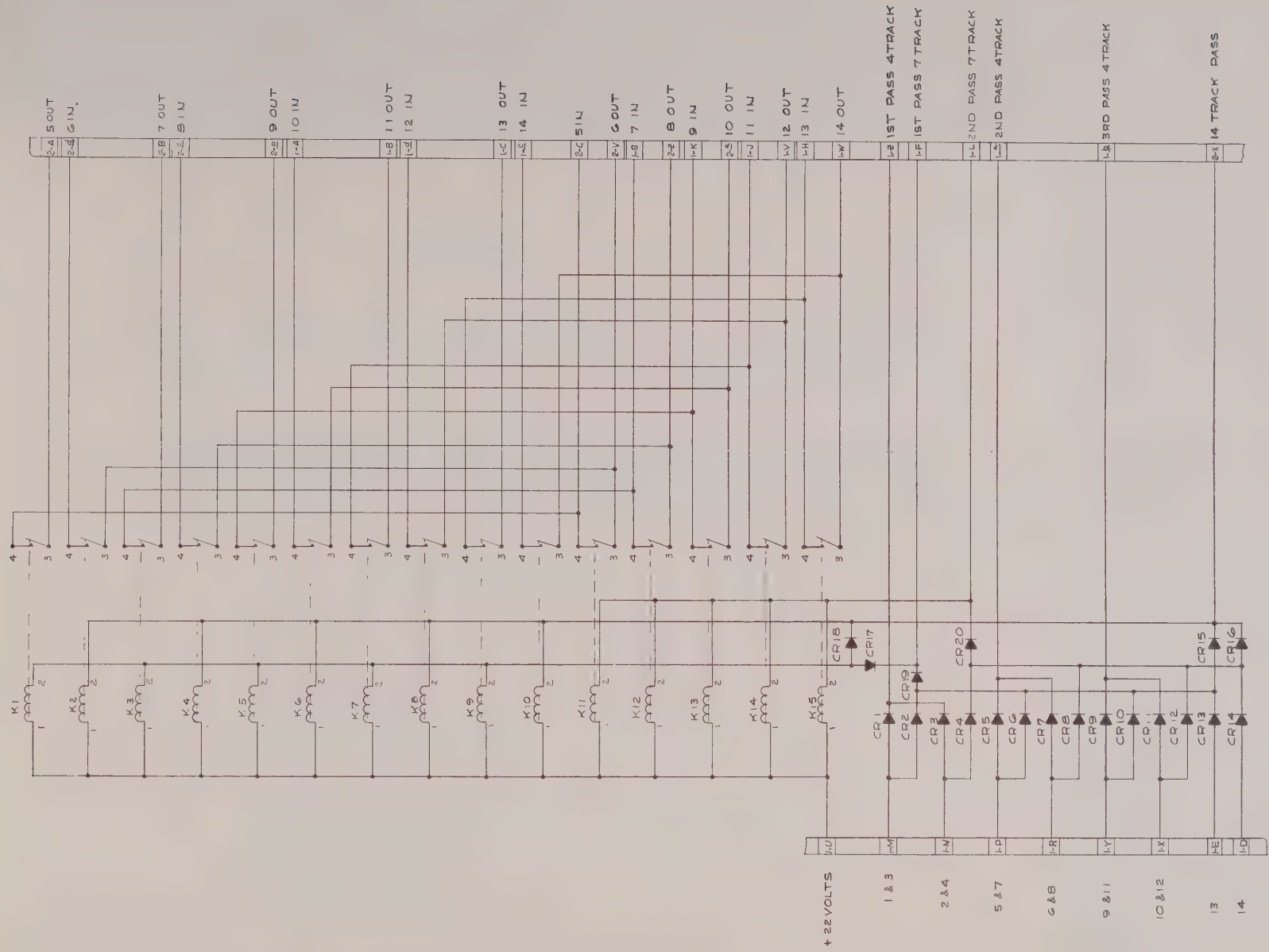


FIGURE 5-37. SERIES SEQUENCE BOARD NO. 2, SCHEMATIC 35635

PARTS LIST

INTRODUCTION. - This section contains a listing of the components comprising Portable Recorder/Reproducer, Model P-5114B, manufactured by Winston Research Corporation, Los Angeles, California.

The parts list is presented by major assemblies, in alphanumerical order of reference symbol numbers. A listing of the assemblies, by page number, appears below. A listing of vendors, and their identifying number as used in the parts list, precedes the parts list.

<u>ASSEMBLY</u>	<u>PAGE NO.</u>
Reproducer Assembly	1
Amplifier 1A1	2
Sequence Assy 1 1A2	11
Sequence Assy 2 1A3	16
Oscillator 1A4	23
Amplifier 1A5	29
Module Assy 1A6	36
Module Assy 1A7-A	39
Module Assy 1A7-B	41
Module Assy 1A7-C	44
Module Assy 1A7-D	47
Module Assy 1A7-E	50
Module Assy 1A8	53
Generator Assy 1A9	57
Mounting Plate Assy 1A10	58
Cable Assy 1A11	61
Remote Control 1A12	62
Panel Assy 1A13	66
Basic Unit Assy 1A14	71
Housing Assy 1A14A1	73
Transport Assy 1A14A2	90
Tool Kit 1A15	193

VENDOR'S CODE IDENTIFICATION

CODE	VENDOR NAME AND ADDRESS	CODE	VENDOR NAME AND ADDRESS	CODE	VENDOR NAME AND ADDRESS
00141	PIC Design Corp. East Rockaway, N. Y.	05571	Sprague Electric Co. Pacific Division Los Angeles, Calif.	12361	Grove Mfg. Co. Inc. Shady Grove, Pa.
00328	Sterling Instrument Division of Designatronics Inc. Mineola Long Island, N. Y.	05574	Viking Industries Inc. Canoga Park, Calif.	12881	Metex Electronics Corp. Clark, N. J.
00779	AMP Inc. Harrisburg, Pa.	06540	Amathom Electronic Hardware Co. Inc. New Rochelle, N. Y.	12969	Unitrode Corp. Watertown, Mass.
00853	Sangamo Electronics Co. Pickens Division Pickens, S. C.	07047	Ross Milton Co. Southampton, Pa.	13550	Atlas Connectors Co. Inc. El Monte, Calif.
01002	General Electric Co. Capacitor Dept. Hudson Falls, N. Y.	07263	Fairchild Semiconductor Division of Fairchild Camera and Instrument Corp. Mountain View, Calif.	13922	Space Recovery Systems Inc. El Segundo, Calif.
01121	Allen-Bradley Co. Milwaukee, Wis.	07294	Genistron, Inc. Los Angeles, Calif.	14752	Electro Cube Inc. South Pasadena, Calif.
01281	TRW Semiconductor Inc. Lawndale, Calif.	07436	Components, Inc. Van Nuys, Calif.	15605	Cutler-Hammer Inc. Milwaukee, Wis.
01766	International Crystal Mfg. Inc. Oklahoma City, Okla.	07479	Miniature Electronics Components Corp. Holbrook, Mass.	15636	Elec-Trol Inc. Northridge, Calif.
02289	HI-G Inc., Bradley Field Windsor Locks, Conn.	08806	General Electric Co. Miniature Lamp Dept. Cleveland, Ohio	15653	Kaynar Mfg. Co. Inc. Kaylock Div. Fullerton, Calif.
03038	Long-Lok Corp. Los Angeles, Calif.	09086	Silbrico Corp. Chicago, Ill.	16407	Nytronics Inc. Lexington, Ky.
04062	Elmenco Products Co. New York, N. Y.	11554	Honeywell Controls Ltd. Microswitch and Transistor Div. Leaside, Ontario, Canada	16546	Systems Engineers Corp. New Orleans, La.
04426	Licon Switch and Control Division of Illinois Tool Works Chicago, Ill.	11897	Plastiguide Mfg. Corp. Santa Monica, Calif.	16758	Delco Radio Division of General Motors Corp. Kokomo, Ind.
05277	Westinghouse Electric Corp. Semi-Conductor Dept. Youngwood, Pa.	12060	Diodes Inc. Chatsworth, Calif.	17554	Components Inc. Biddeford, Maine
05341	Bearing Engineers, Inc. Los Angeles, Calif.	12316	J and J Mfg. Co. Brownwood, Tex.	17672	Intellux Inc. Santa Barbara, Calif.
				17774	Winston Research Corp. Los Angeles, Calif.

VENDOR'S CODE IDENTIFICATION (Cont)

CODE	VENDOR NAME AND ADDRESS	CODE	VENDOR NAME AND ADDRESS	CODE	VENDOR NAME AND ADDRESS
18736	Voltronics Corp. Hanover, N. J.	72259	Nytronics Inc. Berkeley Heights, N. J.	81312	Winchester Electronics Division Litton Industries Inc. Oakville, Conn.
19080	Robison Co. Hawthorne, Calif.	72619	Dialight Corp. Brooklyn, N. Y.	81349	Military Specification Promulgated by Standardization Div. Directorate of Logistic Services DSA
24446	General Electric Co. Schenectady, N. Y.	72962	Elastic Stop Nut Corp. of America Union, N. J.	81480	Allis Rubber Division of Chicago - Allis Mfg Corp. Chicago, Ill.
30703	Industrial Timer Corp. Newark, N. J.	72982	Erie Technological Products Inc. Erie, Pa.	81840	Ledex Inc. Dayton, Ohio
43334	New Departure Division of General Motors Corp. Bristol, Conn.	73597	Commercial Radio Equipment Co. Kansas City, Mo.	81856	Kemlite Laboratories Chicago, Ill.
46384	Penn Engineering and Mfg. Corp. Doylestown, Pa.	73734	Federal Screw Products Inc. Chicago, Ill.	82245	Society of Motion Picture and Television Engineers New York, N. Y.
60418	Torsion Balance Co. Clifton, N. J.	75915	Littlefuse Inc. Des Plaines, Ill.	82768	Phillips-Advance Control Co. Division of Phillips Eckardt Electronics Corp. Joliet, Ill.
61278	United States Catheter and Instrument Corp. Glen Falls, N. Y.	77342	Potter and Brumfield Princeton, Inc.	82877	Rotron Mfg. Co. Inc. Woodstock, N. Y.
70331	Alpha Wire Corp. New York, N. Y.	77969	Rubbercraft Corp. of Calif. Ltd. Torrance, Calif.	83014	Hartwell Corp. Los Angeles, Calif.
70903	Belden Mfg. Co. Chicago, Ill.	78189	Shakeproof Division of Illinois Tool Works Elgin, Ill.	83086	New Hampshire Ball Bearing Inc. Peterborough, N. H.
71002	Birnbach Radio Co. Inc. New York, N. Y.	79136	Waldes Kohinoor Inc. Long Island City, N. Y.	83330	Herman H. Smith Inc. Brooklyn, N. Y.
71468	ITT Cannon Electric Inc. Los Angeles, Calif.	79963	Zierick Mfg. Corp. New Rochelle, N. Y.	84830	Lee Spring Co. Inc. Brooklyn, N. Y.
71482	Clare C. P. and Co. Chicago, Ill.	80131	Electronic Industries Association Washington, D. C.	86928	Electro-Therm Inc. Laurel, Md.
71590	Centralab Division of Globe-Union Inc. Milwaukee, Wis.	80470	Ace-Sycamore Inc. Sycamore, Ill.	88245	Litton Industries Useco Division Van Nuys, Calif.
71785	Cinch Mfg. Co. and Howard B. Jones Div. Chicago, Ill.	80740	Beckman Instruments Inc. Fullerton, Calif.	91506	Augat Inc. Attleboro, Mass.
		81073	Grayhill Inc. La Grange, Ill.		

VENDOR'S CODE IDENTIFICATION (Cont)

CODE	VENDOR NAME AND ADDRESS	CODE	VENDOR NAME AND ADDRESS	CODE	VENDOR NAME AND ADDRESS
91637	Dale Electronics Inc. Columbus, Nebr.	94222	South Chester Corp. Chester, Pa.	96906	Military Standard Promulgated by Standardization Division Directorate of Logistic Services DSA
91662	Elco Corp. Willow Grove, Pa.	95238	P.D.Q. Grinder Co. Westwood, N. J.	98003	Nielsen Hardware Corp. Hartford, Conn.
91767	Heli-Coil Corp. Danbury, Conn.	95264	Lerco Electronics Inc. Burbank, Calif.	98278	Microdot Inc. South Pasadena, Calif.
92702	IMC Magnetics Corp. Eastern Division Westbury Long Island, N. Y.	95328	Wingwax Co. Dayton, Ohio	99392	Safe-T-Mike Corp. Oakland, Calif.
93332	Sylvania Electric Products Inc. Woburn, Mass.	95987	Weckesser Co. Chicago, Ill.	99800	Delevan Electronics Corp. East Aurora, N. Y.

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 60110-01														
ITEM OR SEQUENCE NUMBER	IN DOCUMENT	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
			ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
13		14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				
A001		1	REPRODUCER ASSY 17774		60110-01	1	1	1						
A002		1MP1	SCREW ASSY 83014		H742-1	8	8	8						
A003		1MP2	POWER CORD 70903		4908-954 17408S	1	1	1						
A004		1MP3	RACK ASSY 17774		33228	2	2	2						
A005		1MP4	SHIPPING LIST 17774		34704	1	1	1						
A006		1MP5	MANUAL, OPER 17774		34813	1	1	1						
A007		1MP6	REEL, TAPE 17774		4562-006	1	1	1						
A008		1MP7	TAPE, MAGNETIC 17774		4920-950	1	1	1						
A009		1P1	CONNECTOR 96906		4056-975 MS3106E10SL3S	1	1	1						
A010		1W1	CABLE ASSY, PWR 17774		34569	1	1	1						

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO. P-5114B
CONTRACTOR WINSTON RESEARCH CORP.	DATE OF LIST 1 AUGUST 1966	REVISION	PAGE 1 OF 193

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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE 12	REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents		
A036	1A1	AMPLIFIER 17774	34470	1	1	1	1						
A037	1A1C1	CAPACITOR 81349	4034-452 CS13BE156K	1	4	4	4						
A038	1A1C2	CAPACITOR 81349	SAME AS A037 CS13BE156K	1	REF	REF	REF						
A039	1A1C3	CAPACITOR 81349	4034-738 CS13BF476K	1	8	8	8						
A040	1A1C4	CAPACITOR 81349	4034-469 CS13BB476K	1	2	2	2						
A041	1A1C5	CAPACITOR 81349	4034-453 CS13BC396K	1	2	16	16						
A042	1A1C6	CAPACITOR 81349	SAME AS A039 CS13BF476K	1	REF	REF	REF						
A043	1A1C7	CAPACITOR 81349	SAME AS A039 CS13BF476K	1	REF	REF	REF						
A044	1A1C8	CAPACITOR 04062	4034-451 DM19-472K	1	2	2	2						
A045	1A1C9	CAPACITOR 81349	SAME AS A039 CS13BF476K	1	REF	REF	REF						
A046	1A1C10	CAPACITOR 81349	SAME AS A037 CS13BE156K	1	REF	REF	REF						
A047	1A1C11	CAPACITOR 81349	SAME AS A037 CS13BE156K	1	REF	REF	REF						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34470																			
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	QTY. PER AR- TICLE	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS		
					4	5							11	12	Dollars	Cents		Dollars	Cents
SMR CODE	13	14	STOCK NUMBER	15	ITEM AND LOT NO.	FEDERAL MFR CODE	17	18	19	20	21	22	SPARES ALLOCATIONS				23		
A060		1A1CR6			SEMICONDUCTOR 80131		SAME AS A055 1N457A	1	REF	REF									
A061		1A1CR7			SEMICONDUCTOR 80131		SAME AS A056 1N99	1	REF	REF									
A062		1A1CR8			SEMICONDUCTOR 80131		SAME AS A056 1N99	1	REF	REF									
A063		1A1CR9			SEMICONDUCTOR 93332		SAME AS A058 FD6666	1	REF	REF									
A064		1A1CR10			SEMICONDUCTOR 93332		SAME AS A058 FD6666	1	REF	REF									
A065		1A1MP1			MTG PAD 19086		4116-947 RCT018100-1	16	16	40									
A066		1A1MP2			CIRCUIT BOARD 17774		34472-99	1	1	1									
A067		1A1Q1			TRANSISTOR 80131		4224-937 2N3694	1	16	71									
A068		1A1Q2			TRANSISTOR 80131		SAME AS A067 2N3694	1	REF	REF									
A069		1A1Q3			TRANSISTOR 80131		SAME AS A067 2N3694	1	REF	REF									
A070		1A1Q4			TRANSISTOR 80131		SAME AS A067 2N3694	1	REF	REF									
A071		1A1Q5			TRANSISTOR 80131		SAME AS A067 2N3694	1	REF	REF									
CONTRACT NUMBER													MODEL/TYPE NO. P-5114B						
CONTRACTOR													NOMENCLATURE PORTABLE RECORDER/REPRODUCER						
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34470

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE	REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents
1	3	15	16	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS			
13	14	15	16	17	18	19	20	21	22				
A072	1A1Q6	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A073	1A1Q7	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A074	1A1Q8	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A075	1A1Q9	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A076	1A1Q10	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A077	1A1Q11	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A078	1A1Q12	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A079	1A1Q13	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A080	1A1Q14	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A081	1A1Q15	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A082	1A1Q16	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
A083	1A1R1	RESISTOR	81349	*165-709 RC07GF1C+J	1	2	19						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34470																		
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	S P E C I F I C A T I O N	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
					4	5							11	12	Dollars	Cents		Dollars
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM OVHL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS					
					15	16	17	18	19	20	21	22						
A084			1A1R2		RESISTOR	81349	4165-697 RC07GF333J	1	2	5								
A085			1A1R3		RESISTOR	81349	4165-687 RC07GF123J	1	2	3								
A086			1A1R4		RESISTOR	81349	4165-670 RC07GF242J	1	2	32								
A087			1A1R5		RESISTOR	81349	4165-662 RC07GF102J	1	2	54								
A088			1A1R6		RESISTOR	81349	4165-692 RC07GF203J	1	4	7								
A089			1A1R7		RESISTOR	81349	4165-681 RC07GF682J	1	2	6								
A090			1A1R8		RESISTOR	81349	4165-661 RC07GF911J	1	4	6								
A091			1A1R9		RESISTOR	81349	SAME AS A090 RC07GF911J	1	REF	REF								
A092			1A1R10		RESISTOR	81349	4165-691 RC07GF183J	1	2	4								
A093			1A1R11		RESISTOR	81349	4165-673 RC07GF332J	1	2	5								
A094			1A1R12		RESISTOR	81349	4165-669 RC07GF222J	1	4	16								
A095			1A1R13		RESISTOR	81349	4165-638 RC07GF101J	1	4	31								
CONTRACT NUMBER													MODEL/TYPE NO. P-5114B					
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION													PAGE 6 OF 193					

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34470														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
			ITEM AND LOT NO.	FEDERAL INFR CODE						Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SMR CODE				MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY. ON	USA- BLE CODE	OPTIONAL	21	SPARES ALLOCATIONS		22		
A096	1A1R14		RESISTOR 81349	4165-655 RC07GF511J	1	4	7							
A097	1A1R15		RESISTOR 81349	SAME AS A094 RC07GF222J	1	REF	REF							
A098	1A1R16		RESISTOR 81349	SAME AS A095 RC07GF101J	1	REF	REF							
A099	1A1R17		RESISTOR 81349	SAME AS A096 RC07GF511J	1	REF	REF							
A100	1A1R18		RESISTOR 81349	SAME AS A088 RC07GF203J	1	REF	REF							
A101	1A1R19		RESISTOR 81349	4165-701 RC07GF473J	1	4	4							
A102	1A1R20		RESISTOR 81349	SAME AS A101 RC07GF473J	1	REF	REF							
A103	1A1R21		RESISTOR 81349	4165-757 RC07GF106J	1	2	3							
A104	1A1R22		RESISTOR 81349	4165-689 RC07GF153J	1	2	5							
A105	1A1R23		RESISTOR 81349	4165-688 RC07GF202J	1	2	36							
A106	1A1R24		RESISTOR 80740	4172-953 62PAR5K	1	2	2							
A107	1A1R25		RESISTOR 80740	4172-951 62PAR1K	1	2	18							
CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B														
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION PAGE 7 OF 193														

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34470																																																																											
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS																																																											
					ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents																																																												
SMR CODE	13		STOCK NUMBER	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				22																																																											
A108			1A1R26	RESISTOR		81349	4165-683 RC07GF822J	1	2	6																																																																	
A109			1A1R27	RESISTOR		81349	4165-614 RC07GF100J	1	2	50																																																																	
A110			1A1R28	RESISTOR		81349	SAME AS A083 RC07GF104J	1	REF	REF																																																																	
A111			1A1R29	RESISTOR		80740	SAME AS A107 62PAR1K	1	REF	REF																																																																	
A112			1A1R30	RESISTOR		81349	SAME AS A108 RC07GF822J	1	REF	REF																																																																	
A113			1A1R31	RESISTOR		81349	SAME AS A084 RC07GF333J	1	REF	REF																																																																	
A114			1A1R32	RESISTOR		81349	SAME AS A085 RC07GF123J	1	REF	REF																																																																	
A115			1A1R33	RESISTOR		81349	SAME AS A086 RC07GF242J	1	REF	REF																																																																	
A116			1A1R34	RESISTOR		81349	SAME AS A087 RC07GF102J	1	REF	REF																																																																	
A117			1A1R35	RESISTOR		81349	SAME AS A088 RC07GF203J	1	REF	REF																																																																	
A118			1A1R36	RESISTOR		81349	SAME AS A089 RC07GF682J	1	REF	REF																																																																	
A119			1A1R37	RESISTOR		81349	SAME AS A090 RC07GF911J	1	REF	REF																																																																	
CONTRACT NUMBER																			NOMENCLATURE PORTABLE RECORDER/REPRODUCER																			MODEL/TYPE NO. P-5114B																																					
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34470															
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	UNIT PRICE 11		EXTENDED UNIT PRICE 12	REMARKS	
											Dollars	Cents	Dollars	Cents	
REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ ORDERED	SPARES ALLOCATIONS		OPTIONAL					
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. OVHL. QTY./ FACTOR	USA- BLE ON CODE	21			22					
13	14	15	16	17	18	19	20								
A120	1A1R38	RESISTOR 81349	SAME AS A090 RC07GF911J	1	REF	REF									
A121	1A1R39	RESISTOR 81349	SAME AS A092 RC07GF183J	1	REF	REF									
A122	1A1R40	RESISTOR 81349	SAME AS A093 RC07GF332J	1	REF	REF									
A123	1A1R41	RESISTOR 81349	SAME AS A094 RC07GF222J	1	REF	REF									
A124	1A1R42	RESISTOR 81349	SAME AS A095 RC07GF101J	1	REF	REF									
A125	1A1R43	RESISTOR 81349	SAME AS A096 RC07GF511J	1	REF	REF									
A126	1A1R44	RESISTOR 81349	SAME AS A094 RC07GF222J	1	REF	REF									
A127	1A1R45	RESISTOR 81349	4165-638 RC07GF101J	1	REF	REF									
A128	1A1R46	RESISTOR 81349	SAME AS A096 RC07GF511J	1	REF	REF									
A129	1A1R47	RESISTOR 81349	SAME AS A088 RC07GF203J	1	REF	REF									
A130	1A1R48	RESISTOR 81349	SAME AS A101 RC07GF473J	1	REF	REF									
A131	1A1R49	RESISTOR 81349	SAME AS A101 RC07GF473J	1	REF	REF									
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
CONTRACTOR				DATE OF LIST				1 AUGUST 1966				REVISION			
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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS		
1	2	3	4	5	6	7	8	9	10	Dollars	Cents			
13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS				
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL		Dollars	Cents			
A132	1A1R50	RESISTOR	81349	SAME AS A103 RC07GF106J	1	REF	REF							
A133	1A1R51	RESISTOR	81349	SAME AS A104 RC07GF153J	1	REF	REF							
A134	1A1R52	RESISTOR	81349	SAME AS A105 RC07GF202J	1	REF	REF							
A135	1A1R53	RESISTOR	80740	SAME AS A106 62PAR5K	1	REF	REF							
A136	1A1R54	RESISTOR	81349	SAME AS A109 RC07GF100J	1	REF	REF							

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 35631											
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASST.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ ORDERED	UNIT PRICE	EXTENDED UNIT PRICE	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS		
22											
A162	1A2	SEQUENCE ASSY 17774		3563 1	1	1	1				
A163	1A2CR1	SEMICONDUCTOR 80131		4094-958 1N3277	1	36	190				
A164	1A2CR2	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A165	1A2CR3	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A166	1A2CR4	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A167	1A2CR5	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A168	1A2CR6	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A169	1A2CR7	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A170	1A2CR8	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A171	1A2CR9	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A172	1A2CR10	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
A173	1A2CR11	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF				
CONTRACT NUMBER											
NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B											
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION A											
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SYMBOL NO. PREFIX OR 35631 UNIT NOMENCLATURE														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	SHEET NO.	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
1	3	15	16	5	6	7	8	9	10	11	12	13	14	
SMR CODE	STOCK NUMBER	15	16	17	18	19	20	21	SPARES ALLOCATIONS					
13	14													
A186	1A2CR24	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A187	1A2CR25	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A188	1A2CR26	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A189	1A2CR27	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A190	1A2CR28	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A191	1A2CR29	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A192	1A2CR30	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A193	1A2CR31	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A194	1A2CR32	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A195	1A2CR33	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A196	1A2CR34	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A197	1A2CR35	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
CONTRACT NUMBER														
NOMENCLATURE					PORTABLE RECORDER/REPRODUCER					MODEL/TYPE NO. P-5114B				
CONTRACTOR WINSTON RESEARCH CORP.					DATE OF LIST 1 AUGUST 1966					REVISION A				
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 35631																		
ITEM OR SEQUENCE NUMBER	I N D E N T	REFERENCE SYMBOL NO. 3	ITEM NAME 4		PRIME CONTRACTORS 5		QTY PER ASSY. 6	QTY PER COMP ITEM 7	QTY PER ITEM 8	5 L H I E F L E F	TOTAL RECM/ ORDERED 10	UNIT PRICE 11		EXTENDED UNIT PRICE 12		REMARKS		
			ITEM AND LOT NO. 15	FEDERAL MFR CODE 16	PART NUMBER 17	LONG PART NUMBER CODE						DOLLARS	CTS	DOLLARS	CTS			
SWR CODE 13		FEDERAL STOCK NUMBER 14					RECM MAINT QTY/ FACT 18	RECM OVHL ON QTY/ FACT 19	USABLE ON CODE 20	UNIT OF PACK 21	SPARES ALLOCATIONS 22							
A209		1A2K9	RELAY	15636	SAME AS A201 201-3		1	REF	REF									
A210		1A2K10	RELAY	15636	SAME AS A201 201-3		1	REF	REF									
A211		1A2K11	RELAY	15636	SAME AS A201 201-3		1	REF	REF									
A212		1A2K12	RELAY	15636	SAME AS A201 201-3		1	REF	REF									
A213		1A2K13	RELAY	15636	SAME AS A201 201-3		1	REF	REF									
A214		1A2K14	RELAY	15636	SAME AS A201 201-3		1	REF	REF									
A215 THRU A218		DELETED																
A219		1A2MP1	CIRCUIT BOARD 17774		34597		1	1	1									
CONTRACT NUMBER																		
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 25 APRIL 1967 REVISION A NOMENCLATURE PRTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B																		
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

35634

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S P E C I F I C A T I O N	TOTAL REQM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS				
A245	1A3	SEQUENCE ASSY, 2 17774		35634	1	1	1							
A246	1A3CR1	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A247	1A3CR2	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A248	1A3CR3	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A249	1A3CR4	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A250	1A3CR5	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A251	1A3CR6	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A252	1A3CR7	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A253	1A3CR8	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A254	1A3CR9	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A255	1A3CR10	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
A256	1A3CR11	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							

CONTRACT NUMBER

NOMENCLATURE

MODEL/TYPE NO. P-5114B

CONTRACTOR
WINSTON RESEARCH CORP.

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 35634														
ITEM OR SEQUENCE NUMBER	I N D E N T I F I C A T O R	REFERENCE SYMBOL NO.	ITEM NAME		PRIME CONTRACTORS		QTY PER ASSY.	QTY PER COMP	QTY PER END ITEM	S L H I E F R E C A V L E ORDERED	UNIT PRICE		EXTENDED UNIT PRICE	REMARKS
			ITEM AND LOT NO.	FEDERAL MER CODE	PART NUMBER	LONG PART NUMBER CODE					PART NUMBER	LONG PART NUMBER CODE		
1		3												
SAR CODE		FEDERAL STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MER CODE		MANUFACTURERS								
13		14	15	16										
A266 THRU A280		DELETED												
CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B														
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 25 APRIL 1967 REVISION A PAGE 18 OF 193														

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 35634														
ITEM OR SEQUENCE NUMBER 1	REFERENCE SYMBOL NO. 3	ITEM NAME 4		PRIME CONTRACTORS 5		QTY PER ASSY. 6	QTY PER COMP 7	QTY PER END ITEM 8	S L H I TOTAL E F REGW L E ORDERED F 9 10	UNIT PRICE 11		EXTENDED UNIT PRICE 12		REMARKS
		ITEM AND LOT NO. 15	FEDERAL MFR CODE 16	PART NUMBER 17	LONG PART NUMBER CODE 18					DOLLARS	CTS	DOLLARS	CTS	
SMR CODE 13	FEDERAL STOCK NUMBER 14													
A281 THRU A292	DELETED													

CONTRACT NUMBER	NOMENCLATURE		P-5114B	
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	25 APRIL 1967	PAGE 19 OF 193

SYMBOL NO., PREFIX OR UNIT NOMENCLATURE 35634														
ITEM OR SEQUENCE NUMBER 1	REFERENCE SYMBOL NO. 3	ITEM NAME 4		PRIME CONTRACTORS		QTY PER ASSY. 7	QTY PER COMP 8	QTY PER END ITEM 9	TOTAL RECM' ORDERED 10	UNIT PRICE		EXTENDED UNIT PRICE 12	REMARKS	
		ITEM AND LOT NO. 15	FEDERAL MFR CODE 16	PART NUMBER 17	LONG PART NUMBER CODE 18					DOLLARS 11	CTS 13			DOLLARS 14
SWR CODE 13	FEDERAL STOCK NUMBER 14									SPARES ALLOCATIONS				
A293 THRU A303 A304	DELETED 1A3KI	RELAY 15636	SAME AS A201 201-3			1	15	REF						
CONTRACT NUMBER														
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 25 APRIL 1967 REVISION A NOMENCLATURE PORTABLE RECORDER / REPRODUCER MODEL / TYPE NO. P-5114B														
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SYMBOL NO. PREFIX OR 35634 UNIT NOMENCLATURE																
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
			ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents		
1	3	14	RELAY	15636	17	18	19	20	21	22	SPARES ALLOCATIONS					
SMR CODE																
A305	1A3K2		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A306	1A3K3		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A307	1A3K4		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A308	1A3K5		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A309	1A3K6		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A310	1A3K7		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A311	1A3K8		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A312	1A3K9		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A313	1A3K10		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A314	1A3K11		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A315	1A3K12		RELAY	15636	SAME AS A201 201-3	1	REF	REF								
A316	1A3K13		RELAY	15637	SAME AS A201 201-3	1	REF	REF								
CONTRACT NUMBER			NOMENCLATURE			PORTABLE RECORDER/REPRODUCER			MODEL/TYPE NO.			P-5114B				
CONTRACTOR			WINSTON RESEARCH CORP.			DATE OF LIST			1 AUGUST 1966			REVISION A			PAGE 21 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34433												
1 ITEM OR SEQUENCE NUMBER	2 IN DIE Y	3 REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER TICLE	9 S H E E T	10 TOTAL RECM/ ORDERED	11 UNIT PRICE Dollars Cents	12 EXTENDED UNIT PRICE Dollars Cents	REMARKS
13 SHR CODE	14 STOCK NUMBER	15 ITEM AND LOT NO.	16 FEDERAL MFR CODE	17 MANUFACTURER'S PART NUMBER	18 RECM MAINT. QTY./ FACTOR	19 QTY./ FACTOR	20 USA- BLE OMIL ON CODE	21 OPTIONAL	22 SPARES ALLOCATIONS			
A345	1A4	OSCILLATOR	17774	34433	2	2	2					
A346	1A4C1	CAPACITOR	04062	4034-440 DM15-201K	1	2	2					
A347	1A4C2	CAPACITOR	04062	4034-443 DM15-121K	1	2	16					
A348	1A4C3	CAPACITOR	04062	4034-441 DM19-102K	1	4	18					
A349	1A4C4	CAPACITOR	72982	4034-449 855-000X5V203Z	1	8	50					
A350	1A4C5	CAPACITOR	12361	4032-955 MC626Y	1	4	32					
A351	1A4C6A	CAPACITOR	04062	4034-445 DM19-122K	1	6	48					
A352	1A4C6B	CAPACITOR	04062	DM15-***K	1	6	90					
A353	1A4C7	CAPACITOR	72982	SAME AS A349 855-000X5V203Z	1	REF	REF					
A354	1A4C8	CAPACITOR	81856	4034-831 104-9035A2	1	2	2					
A355	1A4C9A	CAPACITOR	04062	SAME AS A351 DM19-122K	1	REF	REF					
A356	1A4C9B	CAPACITOR	04062	SAME AS A352 DM15-***K	1	REF	REF					
CONTRACT NUMBER				NOMENCLATURE PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B				
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 23 OF 193

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34433													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL REQD/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12		
SMR CODE	STOCK NUMBER	15	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON	OPTIONAL	SPARES ALLOCATIONS				
13	14	16	17	18	19	20	21	22					
A357	1A4C10A	CAPACITOR 04062	SAME AS A351 DM19-122K	1	REF	REF	REF						
A358	1A4C10B	CAPACITOR 04062	SAME AS A352 DM15-***K	1	REF	REF	REF						
A359	1A4C11	CAPACITOR 12361	SAME AS A350 MC626Y	1	REF	REF	REF						
A360	1A4C12	CAPACITOR 72982	SAME AS A349 855-000X5V203Z	1	REF	REF	REF						
A361	1A4C13	CAPACITOR 81349	4034-832 CS13BE226K	1	2	2							
A362	1A4C14	CAPACITOR 04062	4034-442 DM15-101K	1	4	32							
A363	1A4C15	CAPACITOR 04062	SAME AS A348 DM19-102K	1	REF	REF	REF						
A364	1A4C16	CAPACITOR 04062	SAME AS A362 DM15-101K	1	REF	REF	REF						
A365	1A4C17	CAPACITOR 72982	SAME AS A349 855-000X5V203Z	1	REF	REF	REF						
A366	1A4CR1	SEMICONDUCTOR 80131	4092-944 1N752A	1	2	16							
A367	1A4CR2	SEMICONDUCTOR 07263	SAME AS A058 FD6666	1	4	REF							
A368	1A4CR3	SEMICONDUCTOR 07263	SAME AS A058 FD6666	1	REF	REF	REF						
CONTRACT NUMBER				NOMENCLATURE PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B					
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION					
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34433															
ITEM OR SEQUENCE NUMBER	I N D E N T	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
			ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents		
13		STOCK NUMBER	15	16	17	18	19	20	21	SPARES ALLOCATIONS				22	
A369		1A4L1	CHOKE	16407	4046-944 SWD2-2	1	2	16							
A370		1A4L2	CHOKE	16407	4046-946 SWD10	1	4	32							
A371		1A4L3	CHOKE	16407	SAME AS A370 SWD10	1	REF	REF							
A372		1A4MP1	HEAT SINK	01281	4112-953 PRI1	4	8	64							
A373		1A4MP2	CIRCUIT BOARD	17774	34435	1	2	2							
A374		1A4MP3	SOCKET, CRYSTAL	91506	4074-939 8000AG9	1	2	2							
A375		1A4Q1	TRANSISTOR	80131	4224-959 2N1711	1	10	80							
A376		1A4Q2	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A377		1A4Q3	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A378		1A4Q4	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A379		1A4Q5	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A380		1A4Q6	TRANSISTOR	80131	SAME AS A067 2N3694	1	4	REF							
CONTRACT NUMBER					NOMENCLATURE	PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B					
CONTRACTOR WINSTON RESEARCH CORP.					DATE OF LIST	1 AUGUST 1966				REVISION				PAGE 25 OF 193	

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REMARKS

NOMENCLATURE

MODEL/TYPE NO. P-5114B

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34435														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents		
1	1	15	16	5	6	7	8	9	10	11	12			
SNR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM. MAINT. FACTOR	RECM. QTY./ QTY.	USA- BLE ON CODE	OPTIONAL	22	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21	22					
A393	1A4R12	RESISTOR	81349	SAME AS A109 RC07GF100J	1	REF	REF							
A394	1A4R13	RESISTOR	81349	SAME AS A109 RC07GF100J	1	REF	REF							
A395	1A4R14	RESISTOR	81349	4163-901 RC70C1001F	1	2	2							
A396	1A4R15	RESISTOR	81349	SAME AS A083 RC07GF104J	1	2	REF							
A397	1A4R16	RESISTOR	81349	SAME AS A105 RC07GF202J	1	REF	REF							
A398	1A4R17	RESISTOR	81349	4165-659 RC07GF751J	1	2	30							
A399	1A4R18	RESISTOR	81349	SAME AS A386 RC07GF201J	1	REF	REF							
A400	1A4R19	RESISTOR	81349	4165-680 RC07GF622J	1	2	16							
A401	1A4R20	RESISTOR	81349	SAME AS A087 RC07GF102J	1	2	REF							
A402	1A4R21	RESISTOR	81349	4165-650 RC07GF331J	1	2	33							
A403	1A4R22	RESISTOR	80740	SAME AS A107 62PAR1K	1	2	REF							
A404	1A4R23	RESISTOR	81349	4165-640 RC07GF121J	1	2	20							
CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B														
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION														
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34433

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE						Dollars	Cents	Dollars	Cents	
1	3	15	16	5	6	7	8	9	10	11	12	13	
SMR CODE	STOCK NUMBER	14	17	18	19	20	21	22	SPARES ALLOCATIONS				
A405	1A4R24	RESISTOR	81349	4165-637 RC07GF910J	1	2	16						
A406	1A4R26	RESISTOR	81349	4165-635 RC07GF750J	1	2	16						
A407	1A4T1	TRANSFORMER	17774	31304	1	2	16						
A408	1A4T2	TRANSFORMER	17774	31303	1	2	16						
A409	1A4TP1	JACK, TIP	71002	4206-960 1177 BROWN	1	2	17						
A410	1A4TP2	JACK, TIP	71002	4206-961 1177 RED	1	2	17						
A411	1A4Y1	CRYSTAL	01766	4080-956 ATCUTR605-9980KC	1	2	2						

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34415																
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. COMP.	QTY. AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
					4	5						Dollars	Cents	Dollars	Cents	
SMR CODE	13	14	STOCK NUMBER	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	18	19	20	OPTIONAL	21	SPARES ALLOCATIONS		22
														9	10	
A437 A438 A439 A440 A441 A442 A443 A444 A445 A446 A447 A448	13	14	1A5 1A5C1 1A5C2A 1A5C2B 1A5C3 1A5C4 1A5C5A 1A5C5B 1A5C6A 1A5C6B 1A5C7 1A5C8	15	AMPLIFIER 17774 CAPACITOR 12316 CAPACITOR 04062 CAPACITOR 04062 CAPACITOR 72982 CAPACITOR 81349 CAPACITOR 04062 CAPACITOR 04062 CAPACITOR 04062 CAPACITOR 04062 CAPACITOR 12316 CAPACITOR 04062	34415 SAME AS A350 MC626Y SAME AS A351 DM19-122K SAME AS A352 DM15-***K SAME AS A349 855-000X5V203Z 4034-831 CSI38F010K SAME AS A351 DM19-122K SAME AS A352 DM15-***K SAME AS A351 DM19-122K SAME AS A352 DM15-***K SAME AS A351 DM19-122K SAME AS A352 DM15-***K SAME AS A350 MC626Y 4034-444 DM15-180K	14 1 1 1 1 1 1 1 1 1 1 1	14 28 42 84 42 14 REF								

34415

CONTRACT NUMBER		NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION	PAGE 30 OF 193

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34415															
ITEM OR SEQUENCE NUMBER	IN UNIT	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12		REMARKS	
											Dollars	Cents	Dollars	Cents	
A461	SMR CODE 13	STOCK NUMBER 14	FEDERAL INFR CODE 16	MANUFACTURER'S PART NUMBER 17	RECM MAINT. QTY./ FACTOR	18	REF	USA- BLE ON CODE	20	OPTIONAL 21	SPARES ALLOCATIONS 22				
A462		1A5C21	CAPACITOR 04062	SAME AS A352 DM15***K	1	REF	REF								
A463		1A5C22	CAPACITOR 81349	4034-832 CS13BF26K	1	14	14								
A464		1A5C23	CAPACITOR 72982	SAME AS A349 855-000X5V203Z	1	REF	REF								
A465		1A5CR1	SEMICONDUCTOR 80131	SAME AS A366 1N752A	1	14	REF								
A466		1A5CR2	SEMICONDUCTOR 07263	SAME AS A058 FD6666	1	28	REF								
A467		1A5CR3	SEMICONDUCTOR 07263	SAME AS A058 FD6666	1	REF	REF								
A468		1A5CR4	SEMICONDUCTOR 80131	SAME AS A163 1N3277	1	14	REF								
A469		1A5K1	RELAY 15636	SAME AS A201 201-3	1	14	REF								
A470		1A5L1	CHOKES 16407	SAME AS A369 SWD2-2	1	14	REF								
A471		1A5L2	CHOKES 16407	SAME AS A370 SWD10	1	28	REF								
A472		1A5L3	CHOKES 16407	SAME AS A370 SWD10	1	REF	REF								
A473		1A5L4	COIL, VARIABLE 72259	4046-942 VIH2-20	1	14	14								

CONTRACT NUMBER

CONTRACTOR WINSTON RESEARCH CORP.

NOMENCLATURE PORTABLE RECORDER/REPRODUCER

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34415														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	S P E C I F I C A T I O N	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS				
A473	1A5L5	COIL, VARIABLE	72259	4046-943 V1H10-0	1	28	28							
A474	1A5L6	COIL, VARIABLE	72259	SAME AS A473 V1H10-0	1	REF	REF							
A475	1A5MP1	MTG PAD	19080	4116-947 FSP12	4	56	56							
A476	1A5MP2	HEAT SINK	01281	SAME AS A372 PR11	4	56	REF							
A477	1A5MP3	CIRCUIT BOARD	17774	34417-99	1	14	14							
A478	1A5Q1	TRANSISTOR	80131	SAME AS A375 2N1711	1	70	REF							
A479	1A5Q2	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A480	1A5Q3	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A481	1A5Q4	TRANSISTOR	80131	SAME AS A375 2N1711	1	REF	REF							
A482	1A5Q5	TRANSISTOR	80131	SAME AS A067 2N3694	1	42	REF							
A483	1A5Q6	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF							
A484	1A5Q7	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF							
CONTRACT NUMBER														
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER					MODEL/TYPE NO. P-5114B					
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 32 OF 193		

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34415															
ITEM OR SEQUENCE NUMBER	1	2	3	4		5	6	7	8	9	10	UNIT PRICE 11		EXTENDED UNIT PRICE 12	REMARKS
REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	FEDERAL MFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	QTY. PER AR- TICLE	Dollars		Cents		Dollars		Cents	
STOCK NUMBER	15	16	17	18	19	20	SPARES ALLOCATIONS								22
SMR CODE	13	14	15	16	17	18	19	20	21	OPTIONAL					22
A485	1A5Q8	TRANSISTOR 80131	SAME AS A375 2N1711	1	REF	REF	REF	REF	REF						
A486	1A5R1	RESISTOR 81349	SAME AS A086 RC07GF242J	1	28	REF	REF	REF	REF						
A487	1A5R2	RESISTOR 81349	SAME AS A105 RC07GF202J	1	28	REF	REF	REF	REF						
A488	1A5R3	RESISTOR 81349	SAME AS A388 RC07GF150J	1	14	REF	REF	REF	REF						
A489	1A5R4	RESISTOR 81349	SAME AS A389 RC07GF4R7	1	28	REF	REF	REF	REF						
A490	1A5R5	RESISTOR 81349	SAME AS A389 RC07GF4R7	1	REF	REF	REF	REF	REF						
A491	1A5R6	RESISTOR 81349	SAME AS A391 RC07GF272J	1	14	REF	REF	REF	REF						
A492	1A5R7	RESISTOR 81349	SAME AS A109 RC07GF100J	1	42	REF	REF	REF	REF						
A493	1A5R8	RESISTOR 81349	SAME AS A109 RC07GF100J	1	REF	REF	REF	REF	REF						
A494	1A5R9	RESISTOR 81349	SAME AS A109 RC07GF100J	1	REF	REF	REF	REF	REF						
A495	1A5R10	RESISTOR 81349	SAME AS A087 RC20GF102J	1	28	REF	REF	REF	REF						
A496	1A5R11	RESISTOR 81349	SAME AS A083 RC07GF104J	1	14	REF	REF	REF	REF						
CONTRACT NUMBER														MODEL/TYPE NO. P-5114B	
NOMENCLATURE PORTABLE RECORDER/REPRODUCER															
DATE OF LIST 1 AUGUST 1966														REVISION	
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34415

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER KIT	TOTAL REQD./ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
								Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECD MAINT. QTY./ FACTOR	RECD QTY./ FACTOR	US- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS		22
A497	1A5R12	RESISTOR	81349	SAME AS A105 RC07GF202J	1	REF	REF					
A498	1A5R13	RESISTOR	81349	SAME AS A398 RC07GF751J	1	28	REF					
A499	1A5R14	RESISTOR	81349	SAME AS A386 RC07GF201J	1	14	REF					
A500	1A5R15	RESISTOR	81349	SAME AS A400 RC07GF622J	1	14	REF					
A501	1A5R16	RESISTOR	81349	SAME AS A087 RC07GF102J	1	REF	REF					
A502	1A5R17	RESISTOR	81349	SAME AS A402 RC07GF331J	1	28	REF					
A503	1A5R18	RESISTOR	80740	SAME AS A107 62PAR1K	1	14	REF					
A504	1A5R19	RESISTOR	81349	SAME AS A404 RC07GF121J	1	14	REF					
A505	1A5R20	RESISTOR	81349	SAME AS A405 RC07GF910J	1	14	REF					
A506	1A5R22	RESISTOR	80740	4172-952 62PAR2K	1	14	15					
A507	1A5R23	RESISTOR	81349	4174-925 RN65D202F	1	14	14					
A508	1A5R24	RESISTOR	81349	SAME AS A086 RC07GF242J	1	REF	REF					

CONTRACT NUMBER

NOMENCLATURE

MODEL/TYPE NO. P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

DATE OF LIST 1 AUGUST 1966

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34415													
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	REMARKS
SHR CODE	13	14	15	16	17	18	19	20	21	22	23	24	
REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM LOT NO.	FEDERAL MFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE Dollars	UNIT PRICE Cents	EXTENDED UNIT PRICE Dollars	EXTENDED UNIT PRICE Cents	
SPARE ALLOCATIONS	OPTIONAL	USA- BLE ON CODE	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	REF	REF	REF	REF	REF	REF	REF	REF	
A509	1A5R25	RESISTOR 81349		SAME AS A398 RC07GF751J	1	REF	REF						
A510	1A5R26	RESISTOR 81349		4174-924 RN65D475F	1	14	14						
A511	1A5R27	RESISTOR 81349		SAME AS A402 RC07GF331J	1	REF	REF						
A512	1A5R28	RESISTOR 81349		4174-923 RN65D100F	1	14	14						
A513	1A5R29	RESISTOR 81349		4174-922 RN65D150F	1	14	14						
A514	1A5R30	RESISTOR 81349		SAME AS A406 RC07GF750J	1	14	REF						
A515	1A5T1	TRANSFORMER 17774		SAME AS A407 31304	1	14	REF						
A516	1A5T2	TRANSFORMER 17774		SAME AS A408 31303	1	14	REF						
A517	1A5TP1	JACK, TIP 71002		SAME AS A409 1177 BROWN	1	14	REF						
A518	1A5TP2	JACK, TIP 71002		SAME AS A410 1177 RED	1	14	REF						
A519	1A5TP3	JACK, TIP 71002		4206-969 1177 BLACK	1	14	15						
CONTRACT NUMBER													
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.				P-5114B	
CONTRACTOR				WINSTON RESEARCH CORP.				DATE OF LIST				1 AUGUST 1966	
REVISION				1				PAGE 35 OF 193					

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 32876

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL RECM/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS
1	2	4	5	6	7	8	9	10	Dollars Cents	Dollars Cents	
SWR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	RECM MAINT. QTY./ FACTOR	RECM OVL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS			
13	14	15	16	18	19	20	21	22			
A545	1A6	MODULE ASSY 17774		2	2	2					
A546	1A6C1	CAPACITOR 07436	32876	1	2	2					
A547	1A6C2	CAPACITOR 16546	4034-643 NF474A	1	2	2					
A548	1A6C4	CAPACITOR 01002	4034-713 C10A331K	1	2	2					
A549	1A6C5	CAPACITOR 01002	4034-864 62F103	1	4	14					
A550	1A6C6	CAPACITOR 07436	SAME AS A548 62F103	1	REF	REF					
A551	1A6C7	CAPACITOR 07436	4034-868 P474	1	2	2					
A552	1A6C8	CAPACITOR 07436	4034-867 G106	1	2	2					
A553	1A6C9	CAPACITOR 07436	4034-866 G475	1	2	2					
A554	1A6L1	CHOKE 16407	4034-712 B225	1	2	2					
A555	1A6MP1	GUIDE 17774	4046-951 SWD2-11	1	2	2					
A556	1A6MP2	GUIDE 17774	32876-98	1	2	2					
			32876-99	1	2	2					

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32876																	
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
					ITEM AND LOT NO.	FEDERAL INFR CODE						Dollars	Cents	Dollars	Cents		
SMR CODE	13		STOCK NUMBER	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				22	
A557			1A6MP3		HEADER	17774	32879	1	2	2							
A558			1A6Q1		TRANSISTOR	80131	4224-948 2N3117	1	2	2							
A559			1A6Q2		TRANSISTOR	80131	4224943 2N703	1	2	2							
A560			1A6Q3		TRANSISTOR	80131	4224-949 2N718	1	2	2							
A561			1A6Q4		TRANSISTOR	80131	4224-950 2N2222	1	2	6							
A562			1A6R1		RESISTOR	81349	4165-658 RC07GF681J	1	2	4							
A563			1A6R2		RESISTOR	81349	4165-677 RC07GF472J	1	4	10							
A564			1A6R3		RESISTOR	81349	4165-700 RC07GF433J	1	2	2							
A565			1A6R4		RESISTOR	81349	4165-677 RC07GF472J	1	REF	REF							
A566			1A6R5		RESISTOR	81349	4165-646 RC07GF221J	1	2	4							
A567			1A6R6		RESISTOR	81349	SAME AS A095 RC07GF101J	1	8	REF							
A568			1A6R7		RESISTOR	81349	SAME AS A087 RC07GF102J	1	4	REF							
CONTRACT NUMBER					NOMENCLATURE					PORTABLE RECORDER/REPRODUCER					MODEL/TYPE NO. P-5114B		
CONTRACTOR WINSTON RESEARCH CORP.					DATE OF LIST 1 AUGUST 1966					REVISION					PAGE 37 OF 193		

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ITEM OR SEQUENCE NUMBER	IN NO 1	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T 9	TOTAL REC'D/ ORDERED 10	UNIT PRICE 11		EXTENDED UNIT PRICE 12		REMARKS
			ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
13	SMR CODE	STOCK NUMBER	15	16	17	18	19	20	OPTIONAL 21	SPARES ALLOCATIONS 22					
A569		1A6R8	RESISTOR	81349	SAME AS A095 RC07GF101J	1	REF	REF							
A570		1A6R9	RESISTOR	81349	SAME AS A095 RC07GF101J	1	REF	REF							
A571		1A6R10	RESISTOR	81349	4165-706 RC07GF753J	1	2	3							
A572		1A6R12	RESISTOR	81349	SAME AS A095 RC07GF101J	1	REF	REF							
A573		1A6R13	RESISTOR	81349	4165-654 RC07GF471J	1	2	14							
A574		1A6R14	RESISTOR	81349	SAME AS A094 RC07GF222J	1	2	REF							
A575		1A6R15	RESISTOR	81349	SAME AS A087 RC07GF102J	1	REF	REF							
A576		1A6R16	RESISTOR	81349	4165-648 RC07GF271J	1	2	5							

CONTRACT NUMBER

[illegible]

MODEL/TYPE NO. P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

DATE OF LIST	1 AUGUST 1966
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-1													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER AR- TICLE	TOTAL REQM/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS	
1	3	15	4	5	6	7	8	9	10	Dollars Cents	Dollars Cents		
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	16	17	18	19	20	21	22	SPARES ALLOCATIONS			
A602	1A7-A	MODULE ASSY 17774		32880-1	2	2	2						
A603	1A7-AC1	CAPACITOR 61278		4034-694 C10A682K	1	2	10						
A604	1A7-AC2	CAPACITOR 61278		4034-692 C10A182K	1	2	2						
A605	1A7-AC3	CAPACITOR 61278		4034-650 C10A122K	1	2	2						
A606	1A7-AC4	CAPACITOR 18736		4032-959 V1088-2	1	2	6						
A607	1A7-AC5	CAPACITOR 61278		4034-691 C10A330K	1	2	4						
A608	1A7-AC7	CAPACITOR 61278		4034-690 C10A471K	1	2	4						
A609	1A7-AC8	CAPACITOR 61278		4094-687 C10A272K	1	2	4						
A610	1A7-AC9	CAPACITOR 61278		4094-684 C10A821K	1	2	8						
A611	1A7-AK1	RELAY 15636		4156-938 R1327-1	1	2	10						
A612	1A7-AL1	COIL, INDUCTOR 99800		4046-910 DSV108-18	1	2	2						
A613	1A7-AMP1	PLATE, ID 17774		31171-45	1	2	2						
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 39 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-1																								
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER ARTICLE	8	S P A R E S	9	TOTAL REC'D/ ORDERED	10	UNIT PRICE 11 Dollars	Cents	12	EXTENDED UNIT PRICE Dollars	Cents	REMARKS
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	RECM. MAINT. QTY./ FACTOR	18	RECM. QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	SPARES ALLOCATIONS				22	
A614			1A7-AMP2		MODULE, SUB ASSY		17774		32880-2		1	2	2											
A615			1A7-AMP3		GUIDE, MODULE		17774		32880-98		1	2	6											
A616			1A7-AMP4		GUIDE, MODULE		17774		32880-99		1	2	6											
A617			1A7-AMP5		HEADER, MODULE		17774		32883		1	2	10											
A618			1A7-AR1		RESISTOR		07479		4142-915 MF2SS59-100K		1	2	16											
A619			1A7-AR2		RESISTOR		07479		4142-925 MF2SS59-1K		1	2	4											
A620			1A7-AR3		RESISTOR		07479		4142-914 MF2SS59-25K		1	2	4											
A621			1A7-AR4		RESISTOR		07479		4142-923 MF2SS59-2-5K		1	2	10											
A622			1A7-AR5		RESISTOR		81349		SAME AS A095 RC07GF101J		1	2	REF											
A623			1A7-AR6		RESISTOR		81349		SAME AS A087 RC07GF102J		1	2	REF											
A624			1A7-AS1		SWITCH		07479		4184-965 SW32-5S56		1	4	20											
A625			1A7-AS2		SWITCH		07479		SAME AS A624 SW32-5S56		1	REF	REF											
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B												
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 40 OF 193												

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-3															
ITEM OR SEQUENCE NUMBER	1 2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S P E C I F I C A T I O N	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
			4	5							11	12	Dollars	Cents	
SMR CODE		STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS				
13		14	15	16	17	18	19	20							
A651		1A7-B	MODULE ASSY 17774		32880-3	2	2	2							
A652		1A7-BC1	CAPACITOR 61278		SAME AS A603 C10A682K	1	2	REF							
A653		1A7-BC2	CAPACITOR 61278		4034-651 C10A222K	1	2	4							
A654		1A7-BC3	CAPACITOR 61278		4034-688 C10A152K	1	2	6							
A655		1A7-BC4	CAPACITOR 18736		SAME AS A606 V1088-2	1	2	REF							
A656		1A7-BC5	CAPACITOR 61278		SAME AS A607 C10A330K	1	2	REF							
A657		1A7-BC6	CAPACITOR 61278		4034-685 C10A680K	1	2	2							
A658		1A7-BC7	CAPACITOR 61278		SAME AS A610 C10A821K	1	4	REF							
A659		1A7-BC8	CAPACITOR 61278		4034-680 C10A332K	1	2	4							
A660		1A7-BC9	CAPACITOR 61278		SAME AS A610 C10A821K	1	REF	REF							
A661		1A7-BK1	RELAY 15636		SAME AS A611 R1327-1	1	2	REF							
A662		1A7-BL1	COIL, INDUCTOR 99800		4046-931 DSV108-14	1	2	2							
CONTRACT NUMBER		NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.				P-5114B	
CONTRACTOR		WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 41 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-3													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS			
A663	1A7-BMP1	PLATE, ID 17774		31171-46	1	2	2						
A664	1A7-BMP2	MODULE, SUBASSY 17774		32880-4	1	2	2						
A665	1A7-BMP3	GUIDE, MODULE 17774		SAME AS A615 32880-98	1	2	REF						
A666	1A7-BMP4	GUIDE, MODULE 17774		SAME AS A616 32880-99	1	2	REF						
A667	1A7-BMP5	HEADER, MODULE 17774		SAME AS A617 32883	1	2	REF						
A668	1A7-BR1	RESISTOR 07479		SAME AS A618 MF2SS59-100K	1	2	REF						
A669	1A7-BR2	RESISTOR 07479		SAME AS A619 MF2SS59-1K	1	2	REF						
A670	1A7-BR3	RESISTOR 07479		SAME AS A620 MF2SS59-25K	1	2	REF						
A671	1A7-BR4	RESISTOR 07479		SAME AS A621 MF2SS59-2-5K	1	2	REF						
A672	1A7-BR5	RESISTOR 81349		SAME AS A095 RC07GF101J	1	2	REF						
A673	1A7-BR6	RESISTOR 81349		SAME AS A087 RC07GF102J	1	2	REF						
A674	1A7-BS1	SWITCH 07479		SAME AS A624 SW32-5S56	1	4	REF						
CONTRACT NUMBER				NOMENCLATURE PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B					
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 42 OF 193	

SYMBOL NO. PREFIX OR 32880-3 UNIT NOMENCLATURE													
ITEM OR SEQUENCE NUMBER	1 I N D E X	2 2	3 3	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER AR- TICLE	9 S E L F	10 TOTAL REC'D/ ORDERED	11 UNIT PRICE Dollars	12 EXTENDED UNIT PRICE Dollars	13 REMARKS
SMR CODE													
13			14	ITEM AND LOT NO. 15	FEDERAL MFR CODE 16	RECM. MAINT. QTY./ FACTOR	RECM. OVL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL 21	SPARES ALLOCATIONS 22			
A675			1A7-BS2	SWITCH 07479	SAME AS A624 SW32-SS56	1	REF	REF					

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-5													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
A701	1A7-C	MODULE ASSY 17774	17	2	2	2	2	21	22				
A702	1A7-CC1	CAPACITOR 61278	17	1	2	2	REF						
A703	1A7-CC2	CAPACITOR 61278	17	1	2	2	REF						
A704	1A7-CC3	CAPACITOR 61278	17	1	2	2	2						
A705	1A7-CC4	CAPACITOR 18736	17	1	2	2	REF						
A706	1A7-CC5	CAPACITOR 61278	17	1	2	2	2						
A707	1A7-CC6	CAPACITOR 61278	17	1	2	2	6						
A708	1A7-CC7	CAPACITOR 61278	17	1	2	2	REF						
A709	1A7-CC8	CAPACITOR 61278	17	1	2	2	4						
A710	1A7-CC9	CAPACITOR 61278	17	1	2	2	2						
A711	1A7-CK1	RELAY 15636	17	1	2	2	REF						
A712	1A7-CL1	COIL, INDUCTOR 99800	17	1	2	2	2						

CONTRACT NUMBER

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-5													
ITEM OR SEQUENCE NUMBER	I N D E X	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE
			ITEM LOT NO.	FEDERAL INFR CODE							Dollars	Cents	Dollars
13		STOCK NUMBER	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS		REMARKS
A713		1A7-CMP1	PLATE, ID	17774	31171-47	1	2	2					
A714		1A7-CMP2	MODULE, SUBASSY	17774	32880-6	1	2	2					
A715		1A7-CMP3	GUIDE, MODULE	17774	SAME AS A615	1	2	REF					
A716		1A7-CMP4	GUIDE, MODULE	17774	32880-98	1	2	REF					
A717		1A7-CMP5	HEADER, MODULE	17774	SAME AS A616	1	2	REF					
A718		1A7-CR1	RESISTOR	07479	SAME AS A617	1	2	REF					
A719		1A7-CR2	RESISTOR	07479	32883	1	4	REF					
A720		1A7-CR3	RESISTOR	07479	MF2SS59-100K	1	2	6					
A721		1A7-CR4	RESISTOR	07479	4142-892	1	2	REF					
A722		1A7-CR5	RESISTOR	07479	MF2SS59-10K	1	REF	REF					
A723		1A7-CR6	RESISTOR	81349	SAME AS A618	1	2	REF					
A724		1A7-CS1	SWITCH	07479	MF2SS59-2-5K	1	2	REF					
					RC07GF101J	1	2	REF					
					SAME AS A087	1	2	REF					
					RC07GF102J	1	4	REF					
					SAME AS A624	1							
					SW32-5S56								
CONTRACT NUMBER										PORTABLE RECORDER/REPRODUCER			
NOMENCLATURE										MODEL/TYPE NO. P-5114B			
CONTRACTOR WINSTON RESEARCH CORP.										REVISION			
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-5														
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	UNIT PRICE 11 Dollars Cents		EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
SMR CODE	13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				
A725		1A7-CS2	SWITCH	07479	SAME AS A624 SW32-5S56	1	REF	REF						

CONTRACT NUMBER		NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO.	
						P-5114B	

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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

32880-7

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. COMP.	QTY. AR- TICLE	SHEET 1 2 3 4 5 6 7 8 9	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE 12	REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents		
1	3			5	6	7	8	9	10	Dollars	Cents		
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	REQD. MAINT. QTY./ FACTOR	REQD. OVHL. QTY./ FACTOR	USA- BLE OVHL. CODE	OPTIONAL	21	SPARES ALLOCATIONS		22	
13	14			17	18	19	20						
A763	1A7-DK1	RELAY	15636	SAME AS A611 R1327-1	1	2	REF						
A764	1A7-DL1	COIL, INDUCTOR	99800	4046-973 DSV108-8	1	2	2						
A765	1A7-DMP1	PLATE, ID	17774	31171-48	1	2	2						
A766	1A7-DMP2	MODULE, SUBASSY		32880-8	1	2	2						
A767	1A7-DMP3	GUIDE, MODULE	17774	32880-96	1	2	4						
A768	1A7-DMP4	GUIDE, MODULE	17774	32880-97	1	2	4						
A769	1A7-DMP5	HEADER, MODULE	17774	SAME AS A617 32883	1	2	REF						
A770	1A7-DR1	RESISTOR	07479	SAME AS A618 MF2SS59-100K	1	4	REF						
A771	1A7-DR2	RESISTOR	07479	SAME AS A719 MF2SS59-10K	1	2	REF						
A772	1A7-DR3	RESISTOR	07479	SAME AS A618 MF2SS59-100K	1	REF	REF						
A773	1A7-DR4	RESISTOR	07479	SAME AS A621 MF2SS59-2-5K	1	2	REF						
A774	1A7-DR5	RESISTOR	81349	SAME AS A095 RC07GF101J	1	2	REF						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE													
32880-7													
1 ITEM OR SEQUENCE NUMBER	2 IN UNIT	3 REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER ARTICLE	9 S H E E T	10 TOTAL REQD/ ORDERED	11 UNIT PRICE Dollars Cents	12 EXTENDED UNIT PRICE Dollars Cents	REMARKS	
13 SMR CODE		14 STOCK NUMBER	15 ITEM AND LOT NO.	16 FEDERAL MFR CODE	17 MANUFACTURER'S PART NUMBER	18 REQD. MAINT. QTY./ FACTOR	19 OVL. QTY./ FACTOR	20 USA- BLE ON CODE	21 OPTIONAL	SPARES ALLOCATIONS			
A775		1A7-DR6	RESISTOR	81349		1	2	REF					
A776		1A7-DS1	SWITCH	07479		1	4	REF					
A777		1A7-DS2	SWITCH	07479		1	REF	REF					

CONTRACT NUMBER			NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO.	
							P-5114B	

CONTRACTOR	VINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION	PAGE 49 OF 193

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE																														
32880-9																														
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP. TICLE	7	QTY. PER BLE ON	8	QTY. PER TICLE	9	10	UNIT PRICE 11 Dollars	12 Cents	EXTENDED UNIT PRICE 12 Dollars	13 Cents	REMARKS								
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	RECM. QTY./ FACTOR	18	RECM. QTY./ FACTOR	19	20	OPTIONAL	21	SPARES ALLOCATIONS				22								
A803			1A7-E		MODULE ASSY		17774		2		2	2	2	2																
A804			1A7-EC1		CAPACITOR		61278		1		4	4																		
A805			1A7-EC2		CAPACITOR		61278		1		2	REF																		
A806			1A7-EC3		CAPACITOR		61278		1		2	REF																		
A807			1A7-EC5		CAPACITOR		61278		1		2	2																		
A808			1A7-EC6		CAPACITOR		61278		1		2	2																		
A809			1A7-EC7		CAPACITOR		61278		1		2	2																		
A810			1A7-EC8		CAPACITOR		61278		1		4	REF																		
A811			1A7-EC9		CAPACITOR		61278		1		REF	REF																		
A812			1A7-EC10		CAPACITOR		61278		1		2	REF																		
A813			1A7-EC11		CAPACITOR		61278		1		REF	REF																		
A814			1A7-EC12		CAPACITOR		61278		1		2	REF																		
CONTRACT NUMBER										PORTABLE RECORDER/REPRODUCER										MODEL/TYPE NO. P-5114B										
CONTRACTOR WINSTON RESEARCH CORP.										DATE OF LIST 1 AUGUST 1966										REVISION										
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32880-9																					
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL RECM/ ORDERED	9	UNIT PRICE 11 Dollars	10	EXTENDED UNIT PRICE 12 Dollars	13	REMARKS
					ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER		RECM MAINT. QTY./ FACTOR	18	RECM QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	SPARES ALLOCATIONS	22			
SWR CODE	13		STOCK NUMBER	14																	
A827			1A7-ER6		RESISTOR	81349	SAME AS A087 RC07GF102J	1	1	2	REF										
A828			1A7-ES1		SWITCH	07479	SAME AS A624 SW32-5S56	1	1	4	REF										
A829			1A7-ES2		SWITCH	07479	SAME AS A624 SW32-5S56	1	1	REF	REF										
CONTRACT NUMBER CONTRACTOR WINSTON RESEARCH CORP. 1 AUGUST 1966 DATE OF LIST REVISION PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B PAGE 52 OF 193																					

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32605															
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	SHEETS	TOTAL RECM./ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE	REMARKS	
			ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
SHR CODE															
13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS					
A855	1A8		MODULE ASSY 17774	32605	2	2	2		OPTIONAL						
A856	1A8C1		CAPACITOR 07436	4034-868 P474A	1	2	2								
A857	1A8C2		CAPACITOR 07436	4034-748 FR47	1	2	2								
A858	1A8C3		CAPACITOR 01002	SAME AS A548 62F103	1	10	REF								
A859	1A8C4		CAPACITOR 01002	SAME AS A548 62F103	1	REF	REF								
A860	1A8C5		CAPACITOR 01002	SAME AS A548 62F103	1	REF	REF								
A861	1A8C6		CAPACITOR 01002	SAME AS A548 62F103	1	REF	REF								
A862	1A8C7		CAPACITOR 01002	SAME AS A548 62F103	1	REF	REF								
A863	1A8C8		CAPACITOR 01002	4034-852 62F101	1	4	4								
A864	1A8C9		CAPACITOR 01002	SAME AS A863 62F101	1	REF	REF								
A865	1A8CR1		SEMICONDUCTOR 80131	4092-968 1N717A	1	2	2								
A866	1A8L1		COIL 16407	4046-951 WEEWEE100	1	2	2								
CONTRACT NUMBER			NOMENCLATURE			PORTABLE RECORDER/REPRODUCER			MODEL/TYPE NO. P-5114B						
CONTRACTOR			WINSTON RESEARCH CORP.			DATE OF LIST 1 AUGUST 1966			REVISION			PAGE 53 OF 193			

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

32605

1 ITEM OR SEQUENCE NUMBER	2 I N D U S T R Y	3 REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER TICLE	9 S H E E T	10 TOTAL RECM/ ORDERED	11 UNIT PRICE Dollars Cents	12 EXTENDED UNIT PRICE Dollars Cents	REMARKS
13 SMR CODE	14 STOCK NUMBER	15 ITEM AND LOT NO.	16 FEDERAL MFR CODE	17 MANUFACTURER'S PART NUMBER	18 RECM QTY./ FACTOR	19 RECM QTY./ FACTOR	20 USA- BLE ON CODE	21 OPTIONAL	22 SPARES ALLOCATIONS	23 Dollars Cents	24 Dollars Cents	25 REMARKS
A867	1A8MP1	HEADER	17774	31130-2	1	2	2					
A868	1A8MP2	HEADER	17774	31130-98	1	2	2					
A869	1A8MP3	NAMEPLATE	17774	31171-43	1	2	2					
A870	1A8MP4	MODULE ASSY	17774	32605-2	1	2	2					
A871	1A8MP5	GUIDE	17774	32605-98	1	2	2					
A872	1A8MP6	GUIDE	17774	32605-99	1	2	2					
A873	1A8Q1	TRANSISTOR	80131	SAME AS A561 2N2222	1	4	REF					
A874	1A8Q2	TRANSISTOR	80131	SAME AS A561 2N2222	1	REF	REF					
A875	1A8Q3	TRANSISTOR	80131	4224-961 2N697	1	4	4					
A876	1A8Q4	TRANSISTOR	80131	SAME AS A875 2N697	1	REF	REF					
A877	1A8R1	RESISTOR	07479	4142-912 MF2SS57-5K	1	2	2					
A878	1A8R2	RESISTOR	81349	SAME AS A092 RC07GF183J	1	2	REF					

CONTRACT NUMBER

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MODEL/TYPE NO.

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CONTRACTOR

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE													
32605													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars	12 Cents	EXTENDED UNIT PRICE 12 Dollars	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	15	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS			
13	14	15	16	17	18	19	20	21	22				
A879	1A8R3	RESISTOR	81349	SAME AS A094 RC07GF222J	1	4	REF						
A880	1A8R4	RESISTOR	81349	SAME AS A094 RC07GF222J	1	REF	REF						
A881	1A8R5	RESISTOR	81349	SAME AS A404 RC07GF121J	1	4	REF						
A882	1A8R6	RESISTOR	81349	SAME AS A404 RC07GF121J	1	REF	REF						
A883	1A8R7	RESISTOR	81349	SAME AS A087 RC07GF102J	1	2	REF						
A884	1A8R8	RESISTOR	81349	4165-675 RC07GF392J	1	2	2						
A885	1A8R9	RESISTOR	81349	SAME AS A562 RC07GF681J	1	2	REF						
A886	1A8R10	RESISTOR	81349	SAME AS A386 RC07GF201J	1	2	REF						
A887	1A8R11	RESISTOR	81349	4165-685 RC07GF103J	1	4	12						
A888	1A8R12	RESISTOR	81349	SAME AS A887 RC07GF103J	1	REF	REF						
A889	1A8R13	RESISTOR	81349	SAME AS A090 RC07GF911J	1	2	REF						
A890	1A8R14	RESISTOR	81349	SAME AS A095 RC07GF101J	1	4	REF						
CONTRACT NUMBER													
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.				P-5114B	
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 32605														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	S H E E T	TOTAL RECN/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE							Dollars	Cents	Dollars	Cents	
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS		22			
A891	1A8R15	RESISTOR	81349	SAME AS A095 RC07GF101J	1	REF	REF							
A892	1A8R16	RESISTOR	81349	4165-629 RC07GF430J	1	2	2							
A893	1A8R17	RESISTOR	81349	4165-628 RC07GF390J	1	2	2							

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34680													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
13	14	15	16	17	REC'D MANT. QTY./ FACTOR	REC'D QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
A919	1A9	GENERATOR ASSEY 17774		34680	1	1	1	21					

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34574-2													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars	UNIT PRICE 12 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12		
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL					
A970	1A10	PLATE ASSY, MTG 17774		34574-2	1	1	1		22				
A971	1A10C1	CAPACITOR 14752		4020-212 112A1A474	2	2	2						
A972	1A10MP1	SPRING 05341		4816-951 BS34	2	2	6						
A973	1A10MP2	PIN 73597		4544-946 GP3-046X312-12	2	2	2						
A974	1A10MP3	PIN 00141		4540-940 P2-250	8	8	8						
A975	1A10MP4	HEAD, REPRODUCE 17774		P7-112BH	1	1	1						
A976	1A10MP5	HEAD, REPRODUCE 17774		P7-127BL	1	1	1						
A977	1A10MP6	RECORD HEAD 17774		R7-111AH	1	1	1						
A978	1A10MP7	RECORD HEAD 17774		R7-113AL	1	1	1						
A979	1A10MP8	BEARING, BALL 83086		4410-277 SFR1810PPEE	4	4	8						
A980	1A10MP9	GASKET 12881		4484-963 10-218	4	4	4						
A981	1A10MP10	TERMINAL LUG 83330		4200-945 1465-4	2	2	2						
A982	1A10MP11	BLOCK, HEAD MTG 17774		30074	1	1	1						
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR				WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION	
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34574-2												
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL RECM/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS		
1	2	3	4	5	6	7	8	9	10	11	12	13
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM OVL. QTY./ FACTOR	USA- BLE ON CODE	SHELF LIFE	OPTIONAL	SPARES ALLOCATIONS	Dollars	Cents
13	14	15	16	17	18	19	20	21	22			
A983	1A10MP12	BLOCK HEAD, MTG 17774		30845-1	2	2	2					
A984	1A10MP13	CLAMP 17774		31204	8	8	8					
A985	1A10MP14	BLOCK HEAD, MTG 17774		31548-1	1	1	1					
A986	1A10MP15	PLATE, ID 17774		31744	4	4	4					
A987	1A10MP16	PLATE, ID 17774		31746	4	4	4					
A988	1A10MP17	PLATE, ID 17774		33025-80	1	1	1					
A989	1A10MP18	BLOCK ASSY, HEAD 17774		33366-2	1	1	1					
A990	1A10MP19	BLOCK ASSY, HEAD 17774		33367-2	1	1	1					
A991	1A10MP20	BLOCK ASSY, HEAD 17774		33367-4	1	1	1					
A992	1A10MP21	BLOCK, GRD 17774		33783	4	4	4					
A993	1A10MP22	BLOCK ASSY, GRD 17774		33784-2	2	2	2					
A994	1A10MP23	SCREW, AZIMUTH 17774		33825	2	2	2					
CONTRACT NUMBER			NOMENCLATURE			PORTABLE RECORDER/REPRODUCER			MODEL/TYPE NO. P-5114B			
CONTRACTOR			WINSTON RESEARCH CORP.			DATE OF LIST 1 AUGUST 1966			REVISION			
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34574-2

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				22
A995	1A10MP24	ROLLER	17774	33831-98	2	2	2						
A996	1A10MP25	SHAFT	17774	33832	2	2	2						
A997	1A10MP26	SPACER	17774	33911	2	2	2						
A998	1A10MP27	ROLLER ASSY	17774	33944	2	2	2						
A999	1A10MP28	BLOCK ASSY, HEAD	17774	33947-1	1	1	1						
B001	1A10MP29	HEAD MTG	17774	34185	1	1	1						
B002	1A10MP30	STRAP ASSY, GRD	17774	34467-1	1	1	1						
B008	1A10MP31	STRAP ASSY, GRD	17774	34467-2	1	1	1						
B004	1A10MP32	PIN	72962	4544-944 52-012-062-0187	2	2	2						
B005	1A10MP33	PIN	72962	4544-945 52-012-062-0375	2	2	2						
B006	1A10MP34	TERMINAL LUG	86928	4200-975 5422	6	6	6						
B007	1A10MP35	RETAINING RING	79136	4564-967 5555-31H	2	2	2						

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34702													
1 ITEM OR SEQUENCE NUMBER	2 REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3 STOCK NUMBER	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER ARTICLE	9 SHEETS	10 TOTAL RECM/ ORDERED	11 UNIT PRICE Dollars	12 EXTENDED UNIT PRICE Dollars	13 REMARKS	
13 SMR CODE	14 STOCK NUMBER	15 ITEM AND LOT NO.	16 FEDERAL MFR CODE	17 MANUFACTURER'S PART NUMBER	18 RECM MANT. QTY./ FACTOR	19 RECM QTY./ FACTOR	20 USA- BLE ON CODE	21 OPTIONAL	22 SPARES ALLOCATIONS	23 Dollars	24 Cents	25 REMARKS	
B033	1A11		CABLE ASSY 17774	34702	1	1	1						

CONTRACT NUMBER		NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO. P-5114B	
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION		PAGE 61	OF 193

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34566

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE OVHL. ON CODE	OPTIONAL	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21	22				
B084	1A12	REMOTE CONTROL	17774	34566	1	1	1						
B085	1A12DS1	LIGHT, INDICATOR	4122-964	140-5030-1471	1	5	5						
B086	1A12DS2	LIGHT, INDICATOR	72619	SAME AS B085	REF	REF	REF						
B087	1A12DS3	LIGHT, INDICATOR	72619	140-5030-1471	REF	REF	REF						
B088	1A12DS4	LIGHT, INDICATOR	72619	SAME AS B085	REF	REF	REF						
B089	1A12DS5	LIGHT, INDICATOR	72619	140-5030-1471	REF	REF	REF						
B090	1A12DS6	LIGHT	08806	4120-959	1	10	10						
B091	1A12DS7	LIGHT	08806	335	1	REF	REF						
B092	1A12DS8	LIGHT	08806	SAME AS B090	1	REF	REF						
B093	1A12DS9	LIGHT	08806	335	1	REF	REF						
B094	1A12DS10	LIGHT	08806	SAME AS B090	1	REF	REF						
B095	1A12DS11	LIGHT	08806	335	1	REF	REF						

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34566

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE	REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents		
1	3	15	16	5	6	7	8	9	10	Dollars	Cents	12	
SMR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM MAINT FACTOR	RECM QTY./ QTY.	US- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS			
13	14			17	18	19	20	21	22				
B108	1A12MP8	LENS, PUSHBUTTON	17774	33168-96	1	1	3						
B109	1A12MP9	LENS, PUSHBUTTON	17774	33168-97	1	1	3						
B110	1A12MP10	LENS, PUSHBUTTON	17774	33168-98	1	1	3						
B111	1A12MP11	LENS, PUSHBUTTON	17774	33168-99	1	1	3						
B112	1A12MP12	PLATE, ID	17774	33752-96	1	1	1						
B113	1A12MP13	BRACKET	17774	34601	1	1	1						
B114	1A12MP14	PANEL	17774	34602	1	1	1						
B115	1A12MP15	CHASSIS	17774	34922	1	1	1						
B116	1A12XDS6	SOCKET, LIGHT	04426	4180-962 01-1450	1	2	4						
B117	1A12XDS7	SOCKET, LIGHT	04426	SAME AS B116 01-1450	1	REF	REF						
B118	1A12XDS8	SWITCH, LIGHT	04426	4182-973 01-145530	1	8	26						
B119	1A12XDS9	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF						
CONTRACT NUMBER		NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO.		P-5114B					
CONTRACTOR		WINSTON RESEARCH CORP.		DATE OF LIST		1 AUGUST 1966		REVISION		PAGE 64 OF 193			

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34566														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
1	3			5	6	7	8	9	10	Dollars	Cents	Dollars	Cents	
SMR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE OM CODE	OPTIONAL	21	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	22						
B120	1A12XDS10	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF							
B121	1A12XDS11	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF							
B122	1A12XDS12	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF							
B123	1A12XDS13	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF							
B124	1A12XDS14	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF							
B125	1A12XDS15	SWITCH, LIGHT	04426	SAME AS B118 01-145530	1	REF	REF							

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34572																					
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER TICLE	8	9	10	UNIT PRICE 11 Dollars	12 Cents	EXTENDED UNIT PRICE 12 Dollars	13 Cents	REMARKS
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	17	18	19	20	21	OPTIONAL		SPARES ALLOCATIONS		22			
B151			1A13		PANEL ASSY	17774			1	1	1	1									
B152			1A13CR7		SEMICONDUCTOR	80131		34572	1	4	REF	REF									
B153			1A13CR8		SEMICONDUCTOR	80131		SAME AS A163 IN3277	1	REF	REF	REF									
B154			1A13CR9		SEMICONDUCTOR	80131		SAME AS A163 IN3277	1	REF	REF	REF									
B155			1A13CR10		SEMICONDUCTOR	80131		SAME AS A163 IN3277	1	REF	REF	REF									
B156			1A13DS1		LAMP	INCANDNT	08806	4120-959 33S	1	10	20										
B157			1A13DS2		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
B158			1A13DS3		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
B159			1A13DS4		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
B160			1A13DS5		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
B161			1A13DS6		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
B162			1A13DS7		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
B163			1A13DS8		LAMP	INCANDNT	08806	SAME AS B156 33S	1	REF	REF	REF									
CONTRACT NUMBER														PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
CONTRACTOR WINSTON RESEARCH CORP.														DATE OF LIST 1 AUGUST 1966				REVISION			
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34572

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL REQM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS		22	
B164	1A13DS9	LAMP	INCANDNT 08806	SAME AS B156 33S	1	REF	REF						CAL-GLOW CORP. SAUGUS, CALIF.
B165	1A13DS10	LAMP	INCANDNT 08806	SAME AS B156 33S	1	REF	REF						CAL-GLOW CORP. SAUGUS, CALIF.
B166	1A13DS11	LIGHT	INDICTOR *****	4122-958 BEP62AS	1	5	10						CAL-GLOW CORP. SAUGUS, CALIF.
B167	1A13DS12	LIGHT	INDICTOR *****	SAME AS B166 BEP62AS	1	REF	REF						CAL-GLOW CORP. SAUGUS, CALIF.
B168	1A13DS13	LIGHT	INDICTOR *****	SAME AS B166 BEP62AS	1	REF	REF						CAL-GLOW CORP. SAUGUS, CALIF.
B169	1A13DS14	LIGHT	INDICTOR *****	SAME AS B166 BEP62AS	1	REF	REF						CAL-GLOW CORP. SAUGUS, CALIF.
B170	1A13DS15	LIGHT	INDICTOR *****	SAME AS B166 BEP62AS	1	REF	REF						CAL-GLOW CORP. SAUGUS, CALIF.
B171	1A13J1	CONNECTOR	81312	4074-859 SRE34PJ	1	1	2						
B172	1A13MP1	GROMMET, RUBBER	77969	4496-017 144	1	1	2						
B173	1A13MP2	TERMINAL	88245	4204-965 2060B9	6	6	12						
B174	1A13MP3	BRACKET, SWITCH	17774	33166	1	1	2						
B175	1A13MP4	LEGEND, LIGHT	17774	SAME AS B102 33167	1	1	REF						

CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34572												
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	SHEET PAGE	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	
SWR CODE	STOCK NUMBER	15	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS	22	
B188	1A13MPI7		SPACER 06540	4580-935 9211A115-17	2	2	4					
B189	1A13S1		SWITCH, PUSH 11554	4182-965 2PB11T2	1	1	2					
B190	1A13XDS1		SOCKET, LAMP 04426	SAME AS B116 01-145530	1	1	REF					
B191	1A13XDS2		LIGHT-SWITCH 04426	4182-973 01-145530	1	9	REF					
B192	1A13XDS3		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B193	1A13XDS4		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B194	1A13XDS5		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B195	1A13XDS6		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B196	1A13XDS7		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B197	1A13XDS8		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B198	1A13XDS9		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
B199	1A13XDS10		LIGHT-SWITCH 04426	SAME AS B118 01-145530	1	REF	REF					
CONTRACT NUMBER												
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B				
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE													
33170													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	SHEET OF	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12		
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM MAINT. QTY./ FACTOR	RECM MAINT. QTY./ FACTOR	RECM MAINT. QTY./ FACTOR	RECM MAINT. QTY./ FACTOR	OPTIONAL	SPARES ALLOCATIONS			
13	14	15	16	17	18	19	20	21	22				
B225	1A13A1	CIRCUIT BOARD 17774		33170	1	1	1						
B226	1A13A1CR1	SEMICONDUCTOR 80131		SAME AS A163 IN3277	1	REF	REF						
B227	1A13A1CR2	SEMICONDUCTOR 80131		SAME AS A163 IN3277	1	REF	REF						
B228	1A13A1CR3	SEMICONDUCTOR 80131		SAME AS A163 IN3277	1	REF	REF						
B229	1A13A1CR4	SEMICONDUCTOR 80131		SAME AS A163 IN3277	1	REF	REF						
B230	1A13A1CR5	SEMICONDUCTOR 80131		SAME AS A163 IN3277	1	REF	REF						
B231	1A13A1CR6	SEMICONDUCTOR 80131		SAME AS A163 IN3277	1	REF	REF						
B232	1A13A1MP1	TERMINAL, STUD 88245		4204-958 2010B5	12	12	26						
B233	1A13A1MP2	STANDOFF 06540		4563-965 8152A0440-17	1	1	2						
B234	1A13A1MP3	SPACER 06540		4580-937 9228A115-17	1	1	2						
B235	1A13A1TB1	TERMINAL BOARD 17774		33171	1	2	4						
B236	1A13A1TB2	TERMINAL BOARD 17774		SAME AS B235 33171	1	REF	REF						
CONTRACT NUMBER													
NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B													
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION													
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34444																	
ITEM OR SEQUENCE NUMBER	I N T E R N A T I O N A L S Y M B O L S	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS		
			ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents			
13	SMR CODE	STOCK NUMBER	14	15	16												
B261		1A14	BASIC	UNIT ASSY 17774	17	1	1	1									
B262		1A14MP1	PIN, DOWEL	00141		2	2	2									
B263		1A14MP2	LATCH	83014		1	1	1									
B264		1A14MP3	SPRING	84830		1	1	1									
B265		1A14MP4	GASKET	12881		1	1	1									
B266		1A14MP5	GASKET	12881		1	1	1									
B267		1A14MP6	PLATE, ID	17774		1	1	1									
B268		1A14MP7	COVER ASSY	17774		1	1	1									
B269		1A14MP8	COVER ASSY, WELD	17774		1	1	1									
B270		1A14MP9	WINDOW	17774		1	1	1									
B271		1A14MP10	FRAME, WINDOW	17774		1	1	1									
B272		1A14MP11	PIN, PIVOT	17774		1	1	1									
CONTRACT NUMBER			NOMENCLATURE			PORTABLE RECORDER/REPRODUCER					MODEL/TYPE NO.		P-5114B				
CONTRACTOR			WINSTON RESEARCH CORP.			DATE OF LIST			1 AUGUST 1966			REVISION			PAGE 71 OF 193		

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 3444												
1 ITEM OR SEQUENCE NUMBER	2 INVENTORY	3 REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER AR- TICLE	9 S P E C I F I C A T I O N	10 TOTAL REC'D/ ORDERED	11 UNIT PRICE Dollars	12 EXTENDED UNIT PRICE Dollars	REMARKS
			13 ITEM AND LOT NO.	14 FEDERAL MFR CODE	15 RECD MAINT. QTY./ FACTOR	16 RECD OVHL QTY./ FACTOR	17 USA- BLE ON CODE	18 OPTIONAL	19 20	21 Dollars	22 Cents	
B273		1A14MP12	PLATE, HINGE 17774	34667-98	1	1	1					
B274		1A14MP13	PLATE, HINGE 17774	34667-99	1	1	1					
B275		1A14MP14	CATCH, DOOR 17774	34732	2	2	2					
B276		1A14MP15	GASKET 17774	34848	1	1	1					
B277		1A14MP16	PIN, SHILDR 17774	34915	1	1	1					
B278		1A14MP17	PLATE, ID 17774	34921	1	1	1					
B279		1A14MP18	RING, RETAINING 79136	4564-952 5555-25H	1	1	1					

CONTRACT NUMBER

CONTRACTOR WINSTON RESEARCH CORP.

NOMENCLATURE PORTABLE RECORDER/REPRODUCER

DATE OF LIST 1 AUGUST 1966

MODEL/TYPE NO. P-5114B

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34486																						
ITEM OR SEQUENCE NUMBER	1 N D B Y	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER COMP.	QTY. PER TICLE	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS						
					ITEM AND LOT NO.	FEDERAL MFR CODE						11 Dollars	12 Cents	11 Dollars	12 Cents							
SMR CODE	13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS		22										
B305		1A14A1	HOUSING ASSY 17774			1	1	1														
B306		1A14A1B1	BLOWER 82877			1	1	1														
B307		1A14A1C1	CAPACITOR 14752			1	1	1														
B308		1A14A1MP1	NUT 46384			38	38	38														
B309		1A14A1MP2	HANDLE 98003			2	2	2														
B310		1A14A1MP3	NUT 46384			4	4	4														
B311		1A14A1MP4	NUT, PLATE 15653			22	22	22														
B312		1A14A1MP5	STANDOFF 46384			16	16	16														
B313		1A14A1MP6	NUT 46384			2	2	2														
B314		1A14A1MP7	BUMPER 11897			4	4	4														
B315		1A14A1MP8	INSERT, THD 91767			4	4	4														
B316		1A14A1MP9	FRAME ASSY 17774			1	1	1														
CONTRACT NUMBER															NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO.		P-5114B	
CONTRACTOR															WINSTON RESEARCH CORP.		DATE OF LIST		1 AUGUST 1966		REVISION	
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CONTRACT NUMBER	NOMENCLATURE	MODEL/TYPE NO.
	PORTABLE RECORDER/REPRODUCER	P-5114B

CONTRACTOR

SYMBOL NO PREFIX OR 34486 UNIT NOMENCLATURE														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
			ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
1	3	14	15	16	17	18	19	20	21	Dollars	Cents	Dollars	Cents	
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
B329	1A14A1MP22		GASKET	17774	34654	2	2	2						
B330	1A14A1MP23		GASKET	17774	34655	1	1	1						
B331	1A14A1MP24		GASKET	17774	34656	1	1	1						
B332	1A14A1MP25		PANEL ASSY	17774	34660	1	1	1						
B333	1A14A1MP26		PANEL	17774	34661	1	1	1						
B334	1A14A1MP27		PANEL ASSY	17774	34662	1	1	1						
B335	1A14A1MP28		PANEL	17774	34663	1	1	1						
B336	1A14A1MP29		STIFFENER	17774	34666	2	2	2						
B337	1A14A1MP30		BRACKET	17774	34668	1	1	1						
B338	1A14A1MP31		BLOWER ASSY	17774		1	1	1						
B339	1A14A1MP32		TERMINAL STRIP	71785	4202-972 353-18-08-001	1	1	1						
B340	1A14A1MP33		FASTENER	94222	4480-941 54-58-406-24	4	4	8						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL TYPE NO.

P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34675													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE						Dollars	Cents	Dollars	Cents	
B371	1A14A1A1	WIRE LIST 17774	17	1	1	1	1	21	22				
B372	1A14A1A1J1	CONNECTOR 98278	53-371	1	14	14	14						
B373	1A14A1A1J2	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B374	1A14A1A1J3	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B375	1A14A1A1J4	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B376	1A14A1A1J5	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B377	1A14A1A1J6	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B378	1A14A1A1J7	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B379	1A14A1A1J8	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B380	1A14A1A1J9	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B381	1A14A1A1J10	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						
B382	1A14A1A1J11	CONNECTOR 98278	SAME AS B372 53-371	1	REF	REF	REF						

CONTRACT NUMBER

CONTRACTOR WINSTON RESEARCH CORP.

NOMENCLATURE

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 35728														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER AR- TICLE	TOTAL REQD/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS		
1	2	3	4	5	6	7	8	9	10	11	12			
SHR CODE	STOCK NUMBER	15	FEDERAL MFR CODE	17	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS				
13	14		16		18	19	20		22					
B419	1A14A1A1A1	PRINTED CKT BD 17774		35728	1	1	1							
B420	1A14A1A1A1C1	CAPACITOR 24446		4034-934 62F403G2	1	3	12							
B421	1A14A1A1A1C2	CAPACITOR 24446		SAME AS B420 62F403G2	1	REF	REF							
B422	1A14A1A1A1C3	CAPACITOR 24446		SAME AS B420 62F403G2	1	REF	REF							
B423	1A14A1A1A1C1R1	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	6	REF							
B424	1A14A1A1A1C1R2	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
B425	1A14A1A1A1C1R3	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
B426	1A14A1A1A1C1R4	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
B427	1A14A1A1A1C1R5	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
B428	1A14A1A1A1C1R6	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
B429	1A14A1A1A1K1	RELAY 02289		4156-922 2T1C126	1	1	3							
B430	1A14A1A1A1MP1	BRACKET 17774		34698	2	2	2							
CONTRACT NUMBER														
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER						MODEL/TYPE NO. P-5114B				
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION A				PAGE 79 OF 193		

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34657-2															
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS		
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents			
1	2	3	4	5	6	7	8	9	10	11	12	13			
13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS					
B461	1A14A1A1A2	PRINTED CKT BD 17774		34657-2	1	1	1								
B462	1A14A1A1A2J1	CONNECTOR 05574		4074-865 2VH20-1AV5	1	15	15								
B463	1A14A1A1A2J2	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	REF	REF								
B464	1A14A1A1A2J3	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	REF	REF								
B465	1A14A1A1A2J4	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	REF	REF								
B466	1A14A1A1A2J5	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	REF	REF								
B467	1A14A1A1A2J6	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	REF	REF								
B468	1A14A1A1A2J7	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	REF	REF								
B469	1A14A1A1A2J8	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	1	1								
B470	1A14A1A1A2J9	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	1	1								
B471	1A14A1A1A2J10	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	1	1								
B472	1A14A1A1A2J11	CONNECTOR 05574		SAME AS B462 2VH20-1AV5	1	1	1								
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
CONTRACTOR				WINSTON RESEARCH CORP.				DATE OF LIST				1 AUGUST 1966		REVISION	
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34657-2																					
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS				
					4	5							Dollars	Cents	Dollars	Cents					
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS		22						
B473			1A14A1A1A2J12		CONNECTOR	05574	SAME AS B462 2VH20-1AV5	1	1	1											
B474			1A14A1A1A2J13		CONNECTOR	05574	SAME AS B462 2VH20-1AV5	1	1	1											
B475			1A14A1A1A2J14		CONNECTOR	05574	SAME AS B462 2VH20-1AV5	1	1	1											
B476			1A14A1A1A2J15		CONNECTOR	05574	SAME AS B462 2VH20-1AV5	1	1	1											
B477			1A14A1A1A2MP16		WIRING BOARD	17774	34657-1	1	1	1											
B478			1A14A1A1A2MP17		WIRING BOARD	17774	34657-99	1	1	1											
B479			1A14A1A1A2MP18		TERMINAL	88245	4204-935 4570C	1	1	1											
CONTRACT NUMBER														NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO.		P-5114B	
CONTRACTOR														DATE OF LIST		1 AUGUST 1966		REVISION		PAGE 82 OF 193	
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34455-2																
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL REQD/ ORDERED	UNIT PRICE 11		EXTENDED UNIT PRICE 12		REMARKS		
1	3	4	5	6	7	8	9	10	Dollars	Cents	Dollars	Cents				
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MANT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS							
13	14	15	16	17	18	19	20	21	22							
B505	1A14A1A2	PRINTED CKT BD 17774		34555-2	1	1	1									
B506	1A14A1A2J1	CONNECTOR 98278		4054-972 31-65	1	4	5									
B507	1A14A1A2J2	CONNECTOR 98278		SAME AS B506 31-65	1	REF	REF									
B508	1A14A1A2J3	CONNECTOR 98278		SAME AS B506 31-65	1	REF	REF									
B509	1A14A1A2J4	CONNECTOR 98278		SAME AS B506 31-65	1	REF	REF									
B510	1A14A1A2J5	CONNECTOR 98278		4074-862 81312	1	1	1									
B511	1A14A1A2MP1	TERMINAL 13922		4207-916 1707J040-3	116	116	116									
B512	1A14A1A2MP2	PRINTED CKT BD 17774		34455-1	1	1	1									
B513	1A14A1AMP3	PRINTED CKT BD 17774		34455-99	1	1	1									
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B				
CONTRACTOR				DATE OF LIST				1 AUGUST 1966				REVISION				
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34676													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER H E F F	TOTAL REQD/ ORDERED	UNIT PRICE 11 Dollars	UNIT PRICE 12 Dollars	EXTENDED UNIT PRICE 12	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SHR CODE	STOCK NUMBER	15	FEDERAL INFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	21	22	23	24
B539	1A14A1A3	CABLE ASSY	17774	34676	1	1	1						
B540	1A14A1A3MP1	NUT, PLATE	15653	4674-908 MK1000-06	2	2	2						
B541	1A14A1A3MP2	MTG PLATE	17774	SAME AS B390 34866	1	1	REF						
B542	1A14A1A3P1	CONNECTOR	81312	4066-921 SRESJIT	1	1	1						
B543	1A14A1A3P2	CONNECTOR	81312	SAME AS B388 MRE14PJ6	1	1	REF						
CONTRACT NUMBER													
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.				P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 84 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34491													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	RECM QTY./ FACTOR	USA BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21	22				
B569	1A14A1A4	PANEL ASSY 17774		34491	1	1	1						***** Cal-Glow, Saugus, Calif.
B570	1A14A1A4DS1	LIGHT, IND *****		4122-958 62AS	1	14	14						***** Cal-Glow, Saugus, Calif.
B571	1A14A1A4DS2	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B572	1A14A1A4DS3	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B573	1A14A1A4DS4	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B574	1A14A1A4DS5	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B575	1A14A1A4DS6	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B576	1A14A1A4DS7	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B577	1A14A1A4DS8	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B578	1A14A1A4DS9	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B579	1A14A1A4DS10	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B580	1A14A1A4DS11	LIGHT, IND *****		SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
CONTRACT NUMBER													
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B					
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION					
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34491

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE						11 Dollars	12 Cents	11 Dollars	12 Cents	
1	3	4	5	6	7	8	9	10	11	12	13	14	15
SNR CODE	STOCK NUMBER	15	16	17	18	19	20	21	SPARES ALLOCATIONS				22
B581	1A14A1A4DS12	LIGHT, IND	*****	SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B582	1A14A1A4DS13	LIGHT, IND	*****	SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B583	1A14A1A4DS14	LIGHT, IND	*****	SAME AS B570 62AS	1	REF	REF						***** Cal-Glow, Saugus, Calif.
B584	1A14A1A4MP1	STUD	46384	4583-948 F1-1440-5	4	4	4						
B585	1A14A1A4MP2	INDICATOR, LEVEL	17774	33185-98	1	1	1						
B586	1A14A1A4MP3	INDICATOR, LEVEL	17774	33185-99	1	1	1						
B587	1A14A1A4MP4	CHASSIS ASSY	17774	34496	1	1	1						
B588	1A14A1A4MP5	KNOB	95264	4510-003 505-3-1	1	1	3						
B589	1A14A1A4MP6	FASTENER	94222	SAME AS B340 54-58-406-24	4	4	REF						
B590	1A14A1A4S1	SWITCH, ROTARY	17774	33229	1	1	1						
B591	1A14A1A4S2	SWITCH	60418	4186-956 DP7	1	2	4						
B592	1A14A1A4S3	SWITCH	60418	SAME AS B591 DP7	1	REF	REF						

CONTRACT NUMBER

NOMENCLATURE PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34491																			
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER TICLE	8	9	10	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	RECON. MAINT. QTY./ FACTOR	18	RECON. QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	SPARES ALLOCATIONS	22	
B593			1A14A1A4S4		SWITCH	81073	4182-962 39-1		1	1	1								

CONTRACT NUMBER		NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO. P-5114B	
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION		PAGE 87 OF 193	

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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER UNIT	TOTAL REQD/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS
		ITEM AND LOT NO.							Dollars	Cents	
									Dollars	Cents	
B619	1A14A1A5-A	CABLE ASSY 17774		1	1	1					
B620	1A14A1A5-AMP1	TERMINAL, LUG 79963	34473-1	1	1	2					
B621	1A14A1A5-AP1	CONNECTOR 98278	4200-939 472	1	1	REF					
B622	1A14A1A5-AP2	CONNECTOR 98278	SAME AS B391 32-55	1	1						
B623	1A14A1A5-AP3	CONNECTOR 15308	4054-973 31-54	1	1	2					
			4054-932 5095	1	1	2					

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	
SPR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECD MAINT. QTY./ FACTOR	RECD QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	Dollars	Cents	
B649	1A14A1A5-B	CABLE ASSY 17774	16	17	1	1	1	21	22			
B650	1A14A1A5-BMP1	TERMINAL, LUG 79563		34475-2 SAME AS B620 472	1	1	REF					
B651	1A14A1A5-BP1	CONNECTOR 98278		SAME AS B391 32-55	1	1	REF					
B652	1A14A1A5-BP2	CONNECTOR 98278		SAME AS B622 31-54	1	1	REF					
B653	1A14A1A5-BP3	CONNECTOR 15308		SAME AS B623 5095	1	1	REF					

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	SHEET NO.	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
B679	1A14A2	TRANSPORT ASSY 17774	34570	1	1	1		21					
B680	1A14A2C1	CAPACITOR 01002	4034-493 43F3055MA4	1	1	1							
B681	1A14A2DS1	LIGHT 17774	4120-953 MS25237-327	1	2	2							
B682	1A14A2DS2	LIGHT 17774	SAME AS B681 MS25237-327	1	REF	REF							
B683	1A14A2MP1	BRACKET, MTG 05571	4448-001 CMC22	1	1	1							
B684	1A14A2MP2	STUD 46384	4674-909 FH6-32-14	4	4	4							
B685	1A14A2MP3	STUD 17774	33218-99	4	4	4							
B686	1A14A2MP4	SHIELD, LIGHT 17774	34458	2	2	2							
B687	1A14A2MP5	MTG PLATE 17774	34482	2	2	2							
B688	1A14A2MP6	TAPEGUIDE 17774	34560	2	2	2							
B689	1A14A2MP7	COVER 17774	34618	1	1	1							
B690	1A14A2MP8	COVER 17774	34619	1	1	1							

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

DATE OF LIST

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34570															
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	SPARE PART E	TOTAL RECM/ ORDERED	UNIT PRICE 11		EXTENDED UNIT PRICE 12	REMARKS		
1	2	3	4	5	6	7	8	9	10	Dollars	Cents	Dollars		Cents	
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. QTY./ FACTOR	RECM. QTY.	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS						
13	14	15	16	17	18	19	20	21	22						
B691	1A14A2MP9	PLATE, TOP	17774	34622	1	1	1								
B692	1A14A2MP10	HOUSING	17774	34626	1	1	1								
B693	1A14A2MP11	COVER	17774	34627	1	1	1								
B694	1A14A2MP12	GASKET	17774	34693	2	2	2								
B695	1A14A2MP13	BRACKET	17774	34709	1	1	1								
B696	1A14A2MP14	COVER	17774	34710	1	1	1								
B697	1A14A2MP15	BRACKET	17774	34739	1	1	1								
B698	1A14A2MP16	COVER	17774	34854	2	2	2								
B699	1A14A2MP17	SPRING	17774	34855-98	1	1	1								
B700	1A14A2MP18	SPRING	17774	34855-99	1	1	1								
B701	1A14A2MP19	BEARING	17774	34856	2	2	2								
B702	1A14A2MP20	PIN	17774	34857	2	2	2								
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
CONTRACTOR				WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION			
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 33030-1

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	S P E C I F I C A T I O N	TOTAL RECN/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE							Dollars	Cents	Dollars	Cents	
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16
SNR CODE 13	STOCK NUMBER 14	ITEM AND LOT NO. 15	FEDERAL INFR CODE 16	MANUFACTURER'S PART NUMBER 17	RECN. MAINT. QTY./ FACTOR	RECN. OVHL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	21	22	23	24	25
B744	1A14A2A1-A	TRANSISTOR ASSY 17774		33030-1	1	1	1							

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 33030-2													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		4	5						11	12			
1	3	15	16	17	18	19	20	21	Dollars	Cents	Dollars	Cents	
SMR CODE 13	STOCK NUMBER 14	ITEM AND LOT NO.	FEDERAL INFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
B795	1A14A2A1-B	TRANSISTOR ASSY 17774		33030-2	1	1	1						

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 33031-1

ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488</
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34649

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	QTY. PER AR- TICLE	9	TOTAL REC'D/ ORDERED	10	UNIT PRICE 11 Dollars	12	EXTENDED UNIT PRICE Dollars	13	REMARKS
					ITEM LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER																
B912			1A14A2A3	14	TRANSISTOR ASSY 17774		34649		2	2	2	2	2	2	2	2	21						
B913			1A14A2A3MP1		MTG PAD 07047		4116-968 10062N		1	1	1	1	1	1	1	1	1						
B914			1A14A2A3MP2		TERMINAL 88245		4204-960 2Q60A		1	1	1	1	1	1	1	1	1						
B915			1A14A2A3MP3		PRINTED CAD BD 17774		33092-1		1	1	1	1	1	1	1	1	1						
B916			1A14A2A3MP4		PRINTED CRT BD 17774		33092-99		1	1	1	1	1	1	1	1	1						
B917			1A14A2A3MP5		PRINTED CKK BD 17774		33093-1		1	1	1	1	1	1	1	1	1						
B918			1A14A2A3MP6		MTG BLOCK 17774		34650		1	1	1	1	1	1	1	1	1						
B919			1A14A2A3Q1		TRANSISTOR 80131		2N986		1	1	1	1	1	1	1	1	1						

CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34480-1																	
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
					4	5							11	12	Dollars	Cents	
SMR CODE	13	14	STOCK NUMBER	15	16	FEDERAL MFR CODE	17	18	19	20	OPTIONAL	21	SPARES ALLOCATIONS		22		
B045		1A14A2A4	SWITCH ASSY, HD		17774			1	1	1							
B046		1A14A2A4C1	CAPACITOR		01002			1	1	2							
B047		1A14A2A4J1	CONNECTOR		98278			1	1	2							
B048		1A14A2A4J2	CONNECTOR		95238			1	1	2							
B049		1A14A2A4MP1	NUT		46384			4	4	8							
B050		1A14A2A4MP2	NUT		46384			1	1	2							
B051		1A14A2A4MP3	NUT		01121			1	1	2							
B052		1A14A2A4MP4	INDEX ASSY		71590			1	1	2							
B053		1A14A2A4MP5	SECTION		71590			2	2	4							
B054		1A14A2A4MP6	CLAMP, CABLE		95987			1	1	2							
B055		1A14A2A4MP7	GROMMET		77969			1	1	2							
B056		1A14A2A4MP8	TERMINAL		13922			5	5	10							
CONTRACT NUMBER																	
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION																	
MODEL/TYPE NO. P-5114B																	
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34480-2

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	4		PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER ARTICLE	8	9	10	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
					ITEM AND LOT NO.	FEDERAL MFR CODE											Dollars	Cents	Dollars	Cents	
SMR CODE	13		STOCK NUMBER	14	15	16	MANUFACTURER'S PART NUMBER	17	18	19	20	21	SPARES ALLOCATIONS		22						
C005			1A14A2A5		SWITCH ASSY	17774	34480-2		1	1	1										
C006			1A14A2A5C1		CAPACITOR	01002	SAME AS B946 62F204		1	1	REF										
C007			1A14A2A5J1		CONNECTOR	98278	SAME AS B947 S0S93-31-65		1	1	REF										
C008			1A14A2A5J2		CONNECTOR	95328	SAME AS B948 MM14-22P6D		1	1	REF										
C009			1A14A2A5MP1		NUT	46384	SAME AS B949 CLS440-2		4	4	REF										
C010			1A14A2A5MP2		NUT	46384	SAME AS B960 CLS632-2		1	1	REF										
C011			1A14A2A5MP3		NUT	01121	SAME AS B951 M4721		1	1	REF										
C012			1A14A2A5MP4		INDEX ASSY	71590	4184-971 P506		1	1	REF										
C013			1A14A2A5MP5		SECTION	71950	SAME AS B953 P520		2	2	REF										
C014			1A14A2A5MP6		CLAMP, CABLE	95987	SAME AS B954 1-4-2NA		1	1	REF										
C015			1A14A2A5MP7		GROMMET	77969	SAME AS B955 139		1	1	REF										
C016			1A14A2A5MP8		TERMINAL	13922	SAME AS B956 1707DT040-1		5	5	REF										

CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34480-2																
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
					4	5						6	7	8	9	
SMR CODE	13	14	STOCK NUMBER	15	ITEM AND LOT NO.	FEDERAL MFR CODE	16	17	18	19	20	OPTIONAL	21	Dollars	Cents	
C017			1A14A2A5MP9		TERMINAL 88245			1	1	REF						
C018			1A14A2A5MP10		PREAMPLIFIER 17774			1	1	REF						
C019			1A14A2A5MP11		HOUSING 17774			1	1	1						
C020			1A14A2A5MP12		GASKET 17774			1	1	REF						
C021			1A14A2A5MP13		PRINTED CKT BD 17774			1	1	REF						
C022			1A14A2A5MP14		PRINTED CKT BD 17774			1	1	REF						
C023			1A14A2A5MP15		FRAME ASSY 17774			1	1	1						
C024			1A14A2A5P1		CONNECTOR 98278			1	7	REF						
C025			1A14A2A5P2		CONNECTOR 98278			1	REF	REF						
C026			1A14A2A5P3		CONNECTOR 98278			1	REF	REF						
C027			1A14A2A5P4		CONNECTOR 98278			1	REF	REF						
C028			1A14A2A5P5		CONNECTOR 98278			1	REF	REF						
CONTRACT NUMBER																
NOMENCLATURE																
PORTABLE RECORDER/REPRODUCER																
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34480-2																														
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER TICLE	8	TOTAL RECM/ ORDERED	9	UNIT PRICE 11	10	EXTENDED UNIT PRICE 12	13	REMARKS									
					ITEM AND LOT NO.	15	FEDERAL MFR CODE	16									Dollars	Cents	Dollars	Cents										
			STOCK NUMBER	14													SPARES ALLOCATIONS													
																					22									
C029			1A14A2A5P6		CONNECTOR		98278		1	REF	REF	REF	REF	REF	REF	REF														
C030			1A14A2A5P7		CONNECTOR		98278		1	REF	REF	REF	REF	REF	REF	REF														
C031			1A14A2A5R1		RESISTOR		81349		1	REF	REF	REF	REF	REF	REF	REF														
C032			1A14A2A5W1		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
C033			1A14A2A5W2		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
C034			1A14A2A5W3		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
C035			1A14A2A5W4		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
C036			1A14A2A5W5		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
C037			1A14A2A5W6		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
C038			1A14A2A5W7		CABLE ASSY		17774		1	1	1	1	1	1	1	1														
CONTRACT NUMBER																			NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34438													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE						Dollars	Cents	Dollars	Cents	
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS		22		
C064	1A14A2A6	POWER SUPPLY 17774		34438	1	1	1						
C065	1A14A2A6C1	CAPACITOR 99392		4034-488 71T60H252	1	3	3						
C066	1A14A2A6C2	CAPACITOR 99392		SAME AS C065 71T60H252	1	REF	REF						
C067	1A14A2A6C3	CAPACITOR 99392		SAME AS C065 71T60H252	1	REF	REF						
C068	1A14A2A6C4	CAPACITOR 24446		4034-665 29F1601G2	1	1	1						
C069	1A14A2A6C5	CAPACITOR 24446		SAME AS B420 62F403G2	1	2	REF						
C070	1A14A2A6C6	CAPACITOR 24446		SAME AS B420 62F403G2	1	REF	REF						
C071	1A14A2A6CR1	SEMICONDUCTOR 80131		4094-967 1N2587	1	4	12						
C072	1A14A2A6CR2	SEMICONDUCTOR 80131		SAME AS C071 1N2587	1	REF	REF						
C073	1A14A2A6CR3	SEMICONDUCTOR 80131		SAME AS C071 1N2587	1	REF	REF						
C074	1A14A2A6CR4	SEMICONDUCTOR 80131		SAME AS C071 1N2587	1	REF	REF						
C075	1A14A2A6CR5	SEMICONDUCTOR 80131		4094-968 1N2589	1	4	4						

CONTRACT NUMBER

CONTRACTOR WINSTON RESEARCH CORP.

NOMENCLATURE PORTABLE RECORDER/REPRODUCER

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34438																										
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER ARTICLE	8	SHEET 9	TOTAL REQD/ ORDERED	10	UNIT PRICE 11	12	EXTENDED UNIT PRICE 12	REMARKS					
					ITEM AND LOT NO.	FEDERAL MFR CODE												Dollars	Cents	Dollars	Cents					
SWR CODE	13		STOCK NUMBER	14			MANUFACTURER'S PART NUMBER	17	RECM. MAINT. QTY./ FACTOR	18	RECM. QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21		SPARES ALLOCATIONS				22				
C076			1A14A2A6CR6		SEMICONDUCTOR 80131		4094-968 1N2589		1	REF	REF		REF	REF												
C077			1A14A2A6CR7		SEMICONDUCTOR 80131		4094-968 1N2589		1	REF	REF		REF	REF												
C078			1A14A2A6CR8		SEMICONDUCTOR 80131		4094-968 1N2589		1	REF	REF		REF	REF												
C079			1A14A2A6CR9		SEMICONDUCTOR 12060		4094-958 DI52		1	1	1		1	1												
C080			1A14A2A6K1		RELAY 09086		4156-947 BR7X300D7-26V		1	2	2		2	2												
C081			1A14A2A6K2		RELAY 09086		SAME AS C080 BR7X300D7-26V		1	REF	REF		REF	REF												
C082			1A14A2A6L1		INDUCTOR 17774		33265		1	1	3		3	3												
C083			1A14A2A6MP1		MTG KIT, XSTR 05277		4116-972 140A601G16		1	1	1		1	1												
C084			1A14A2A6MP2		MTG KIT, XSTR 05277		4116-973 140A602G09		1	1	2		2	2												
C085			1A14A2A6MP3		TERMINAL 83330		4200-941 1552		A/R	A/R	A/R		A/R	A/R												
C086			1A14A2A6MP4		TERMINAL 82245		4204-963 1600B		2	2	2		2	2												
C087			1A14A2A6MP5		TERMINAL 88245		4204-961 1601A		2	2	2		2	2												
CONTRACT NUMBER																	NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.																	DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 106 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34438																							
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL RECM/ ORDERED	9	UNIT PRICE 11 Dollars	10	EXTENDED UNIT PRICE 12 Dollars	11	REMARKS		
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	RECM MAINT. QTY./ FACTOR	18	RECM QTY./ FACTOR	19	RECM QTY./ FACTOR	20	OPTIONAL	21	SPARES ALLOCATIONS	22			
C088			1A14A2A6MP6		SPACER	83330			4850-963 2102		2	2	2										
C089			1A14A2A6MP7		WIRE BRAID, SHL	70331			4934-954 2168		A/R	A/R	A/R										
C090			1A14A2A6MP8		BRACKET, CAPCTR	17774			32997		1	1	1										
C091			1A14A2A6MP9		BRACKET	17774			32999		1	1	1										
C092			1A14A2A6MP10		PLATE, TOP	17774			33014		1	1	1										
C093			1A14A2A6MP11		PLATE, MTG	17774			33022		1	1	1										
C094			1A14A2A6MP12		BRACKET, CAPCTR	17774			33111		1	1	1										
C095			1A14A2A6MP13		STUD, REACTOR	17774			33218-98		4	4	12										
C096			1A14A2A6MP14		STUD, CAPACITOR	17774			33219		3	3	5										
C097			1A14A2A6MP15		COVER, TOP	17774			34453		1	1	1										
C098			1A14A2A6MP16		STANDOFF	06540			8215SS1032-7		3	3	5										
C099			1A14A2A6P1		CONNECTOR	95238			4074-949 600-121GD15		1	1	1										
CONTRACT NUMBER														NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.														DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 107 OF 193	

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34438

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE	REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents		
1	3	15	16	5	6	7	8	9	10	Dollars	Cents	12	
SMR CODE	STOCK NUMBER	15	16	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. OVRH. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	Dollars	Cents		
13	14			17	18	19	20	21	22				
C100	1A14A2A6P201	CONNECTOR	81312	4074-876 MRA20PJ6	1	1	2						
C101	1A14A2A6Q1	TRANSISTOR	05277	4226-947 164-08	1	1	1						
C102	1A14A2A6Q2	TRANSISTOR	05277	4226-970 154-04	1	1	2						
C103	1A14A2A6R1	RESISTOR	81349	4166-252 RC42GF152J	1	1	1						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO.

P-5114B

CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34436																					
ITEM OR SEQUENCE NUMBER	I N D E X	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S P E C I F I C A T I O N	TOTAL REQM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS					
				ITEM AND LOT NO.	FEDERAL INFR CODE							Dollars	Cents	Dollars	Cents						
SMR CODE		STOCK NUMBER	14	15	16	17	18	19	20	OPTIONAL	21	22	SPARES ALLOCATIONS								
C180		1A14A2A7		POWER SUPPLY	17774	34436	1	1	1	USA- BLE ON CODE											
C181		1A14A2A7C1		CAPACITOR	00853	4034-811 500-1042-01	1	2	2												
C182		1A14A2A7C2		CAPACITOR	00853	SAME AS C181 500-1042-01	1	REF	REF												
C183		1A14A2A7C3		CAPACITOR	24446	SAME AS B420 62F403G2	1	1	REF												
C184		1A14A2A7CR1		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C185		1A14A2A7CR2		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C186		1A14A2A7CR3		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C187		1A14A2A7CR4		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C188		1A14A2A7CR5		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C189		1A14A2A7CR6		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C190		1A14A2A7CR7		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
C191		1A14A2A7CR8		SEMICONDUCTOR	80131	SAME AS C071 1N2587	1	REF	REF												
CONTRACT NUMBER														PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
CONTRACTOR WINSTON RESEARCH CORP.														DATE OF LIST 1 AUGUST 1966				REVISION			
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34436																	
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	S H E E T	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
					LOT NO.	FEDERAL MFR CODE							11	12	Dollars	Cents	
SMR CODE	13		STOCK NUMBER	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS				
C192			1A14A2A7CR9		SEMICONDUCTOR	80131	4092-940 1N4554B	1	1	1							
C193			1A14A2A7L1		REACTOR	17774	SAME AS C082 33265	1	2	REF							
C194			1A14A2A7L2		REACTOR	17774	SAME AS C082 33265	1	REF	REF							
C195			1A14A2A7MP1		TERMINAL	83330	SAME AS C085 1552	A/R	A/R	A/R							
C196			1A14A2A7MP2		TERMINAL	88245	SAME AS C087 1601A	4	4	REF							
C197			1A14A2A7MP3		TERMINAL	78186	4200-965 2101-14-00	1	1	1							
C198			1A14A2A7MP4		WIRE BRAID, SHL	70331	SAME AS C089 2168	A/R	A/R	A/R							
C199			1A14A2A7MP5		CLAMP, CABLE	95987	4446-975 3-8-4NA	1	1	1							
C200			1A14A2A7MP6		BRACKET, CAPCTR	17774	32654	1	1	1							
C201			1A14A2A7MP7		PLATE, TOP	17774	33015	1	1	1							
C202			1A14A2A7MP8		PLATE, MTG	17774	33021	1	1	1							
C203			1A14A2A7MP9		BRACKET, CAPCTR	17774	33094	1	1	1							
CONTRACT NUMBER													MODEL/TYPE NO. P-5114B				
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34436												
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. OVHL. QTY./ ON	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	Dollars	Cents	
13	14	15	16	17	18	19	20	21	22			
C204	1A14A2A7MP10	STUD, REACTOR 17774		SAME AS C095 33218-98	8	8	REF					
C205	1A14A2A7MP11	STUD, CAPACITOR 17774		SAME AS C096 33219	2	2	REF					
C206	1A14A2A7MP12	BRACKET, MTG 17774		34437	1	1	1					
C207	1A14A2A7MP13	COVER, BOTTOM 17774		34454	1	1	1					
C208	1A14A2A7MP14	STANDOFF 06540		SAME AS C098 8215SS1032-7	2	2	REF					
C209	1A14A2A7P301	CONNECTOR 81312		4074-875 MRA14PJ6	1	1	1					
C210	1A14A2A7R1	RESISTOR 81349		4166-232 RC42GF221J	1	1	1					
C211	1A14A2A7R2	RESISTOR 91637		4174-921 RH50-8R0H	1	1	1					
CONTRACT NUMBER										MODEL/TYPE NO. P-5114B		
CONTRACTOR WINSTON RESEARCH CORP.										REVISION		
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34572																							
ITEM OR SEQUENCE NUMBER	1 IN 2 NO		REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS								
	1	2		Dollars	Cents						Dollars	Cents											
SMR CODE	13		STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE						SPARES ALLOCATIONS												
			14	15	16	17	18	19	20	21	22												
C237			1A14A2A8	PANEL ASSY 17774		34572	1	1	1														
C238			1A14A2A8CH7	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	4	REF														
C239			1A14A2A8CR8	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF														
C240			1A14A2A8CR9	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF														
C241			1A14A2A8CR10	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF														
C242			1A14A2A8DS1	LAMP INCANDNT 08806		4120-959 33S	1	10	REF														
C243			1A14A2A8DS2	LAMP INCANDNT 08806		SAME AS B156 33S	1	REF	REF														
C244			1A14A2A8DS3	LAMP INCANDNT 08806		SAME AS B156 33S	1	REF	REF														
C245			1A14A2A8DS4	LAMP INCANDNT 08806		SAME AS B156 33S	1	REF	REF														
C246			1A14A2A8DS5	LAMP INCANDNT 08806		SAME AS B156 33S	1	REF	REF														
C247			1A14A2A8DS6	LAMP INCANDNT 08806		SAME AS B156 33S	1	REF	REF														
C248			1A14A2A8DS7	LAMP INCANDNT 08806		SAME AS B156 33S	1	REF	REF														
CONTRACT NUMBER										NOMENCLATURE PORTABLE RECORDER/REPRODUCER										MODEL/TYPE NO. P-5114B			
CONTRACTOR WINSTON RESEARCH CORP.										DATE OF LIST 1 AUGUST 1966										REVISION			
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34572

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	SHEET NO.	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MER. CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM OHL QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS		
13	14	15	16	17	18	19	20	21	22		
C249	1A14A2A8DS8	LAMP	INCANDNT 08806	SAME AS B156 335	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C250	1A14A2A8DS9	LAMP	INCANDNT 08806	SAME AS B156 335	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C251	1A14A2A8DS10	LAMP	INCANDNT 08806	SAME AS B156 335	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C252	1A14A2A8DS11	LIGHT	INDICATOR *****	4122-958 BEP62AS	1	5	REF				***** Cal-Glow, Saugus, Calif.
C253	1A14A2A8DS12	LIGHT	INDICATOR *****	SAME AS B166 BEP62AS	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C254	1A14A2A8DS13	LIGHT	INDICATOR *****	SAME AS B166 BEP62AS	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C255	1A14A2A8DS14	LIGHT	INDICATOR *****	SAME AS B166 BEP62AS	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C256	1A14A2A8DS15	LIGHT	INDICATOR *****	SAME AS B166 BEP62AS	1	REF	REF				***** Cal-Glow, Saugus, Calif.
C257	1A14A2A8J1	CONNECTOR	81312	SAME AS B171 SRE34PJ	1	1	REF				
C258	1A14A2A8MP1	GROMMET, RUBBER	77969	SAME AS B172 144	1	1	REF				
C259	1A14A2A8MP2	TERMINAL	88245	4204-965 2060B9	6	6	REF				
C260	1A14A2A8MP3	BRACKET, SWITCH	17774	SAME AS B174 33166	1	1	REF				

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34572													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
13	14	1A14A2A8MP4	LEGEND, LIGHT 17774	17	1	1	1	21	22	SPARES ALLOCATIONS			
C261		1A14A2A8MP4	LEGEND, LIGHT 17774	SAME AS B102 33167	1	1	1	REF					
C262		1A14A2A8MP5	LEGEND, LIGHT 17774	SAME AS B103 33168-89	1	1	1	REF					
C263		1A14A2A8MP6	LEGEND, LIGHT 17774	SAME AS B104 33168-92	1	1	1	REF					
C264		1A14A2A8MP7	LEGEND, LIGHT 17774	SAME AS B105 33168-93	1	1	1	REF					
C265		1A14A2A8MP8	LEGEND, LIGHT 17774	SAME AS B106 33168-94	1	1	1	REF					
C266		1A14A2A8MP9	LEGEND, LIGHT 17774	SAME AS B107 33168-95	1	1	1	REF					
C267		1A14A2A8MP10	LEGEND, LIGHT 17774	SAME AS B108 33168-96	1	1	1	REF					
C268		1A14A2A8MP11	LEGEND, LIGHT 17774	SAME AS B109 33168-97	1	1	1	REF					
C269		1A14A2A8MP12	LEGEND, LIGHT 17774	SAME AS B110 33168-98	1	1	1	REF					
C270		1A14A2A8MP13	LEGEND, LIGHT 17774	SAME AS B111 33168-99	1	1	1	REF					
C271		1A14A2A8MP14	BLOCK, SPEED CH 17774	SAME AS B185 33169	1	1	1	REF					
C272		1A14A2A8MP15	PRINTED WIRE BD 17774	SAME AS B186 33221	1	1	1	REF					

CONTRACT NUMBER
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34572

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
1	3	14	15	17	6	7	8	9	10	11	12	13	
SWR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MANT/ QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21	22				
C273	1A14A2A8MP16	WASHER	86928	SAME AS B187 5610-53	2	2	REF						
C274	1A14A2A8MP17	SPACER	06540	SAME AS B188 9211A115-17	2	2	REF						
C275	1A14A2A8S1	SWITCH, PUSH	11554	SAME AS B189 2PB11T2	1	1	REF						
C276	1A14A2A8XDS1	SOCKET, LAMP	04426	SAME AS B116 01-1450	1	1	REF						
C277	1A14A2A8XDS2	LIGHT-SWITCH	04426	4182-972 01-145530	1	9	REF						
C278	1A14A2A8XDS3	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						
C279	1A14A2A8XDS4	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						
C280	1A14A2A8XDS5	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						
C281	1A14A2A8XDS6	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						
C282	1A14A2A8XDS7	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						
C283	1A14A2A8XDS8	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						
C284	1A14A2A8XDS9	LIGHT-SWITCH	04426	SAME AS B118 01-145530	1	REF	REF						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO.

P-5114B

CONTRACTOR

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 33170														
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	UNIT PRICE 11 Dollars Cents		EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	USA- BLE ON CODE	OPTIONAL	TOTAL RCM/ ORDERED	SPARES ALLOCATIONS			
SMR CODE														
C311	1A14A2A8A1	CIRCUIT BOARD 17774		33170	1	1	1			21	22			
C312	1A14A2A8A1CR1	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	6	REF							
C313	1A14A2A8A1CR2	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
C314	1A14A2A8A1CR3	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
C315	1A14A2A8A1CR4	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
C316	1A14A2A8A1CR5	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
C317	1A14A2A8A1CR6	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF							
C318	1A14A2A8A1MP1	TERMINAL, STUD 88245		SAME AS B232 2010B5	12	12	REF							
C319	1A14A2A8A1MP2	STANDOFF 06540		SAME AS B233 8152A0440-17	1	1	REF							
C320	1A14A2A8A1MP3	SPACER 06540		SAME AS B234 9228A115-17	1	1	REF							
C321	1A14A2A8A1TB1	TERMINAL BOARD 17774		SAME AS B235 33171	1	2	REF							
C322	1A14A2A8A1TB2	TERMINAL BOARD 17774		SAME AS B235 33171	1	REF	REF							
CONTRACT NUMBER											MODEL/TYPE NO. P-5114B			
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION											PAGE 118 OF 193			

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34684													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. COMP.	QTY. PER TICLE	STOCK FILE	TOTAL RECM/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS	
1	2	3	4	5	6	7	8	9	10	Dollars	Cents		
13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS			
C348	1A14A2A9	SERVO ASSY. 1 17774		34684	1	1	1						
C349	1A14A2A9C1	CAPACITOR 14752		4018-219 217A1B334K2	1	1	1						
C350	1A14A2A9C2	CAPACITOR 14752		4034-432 215B1C472M2K	1	1	1						
C351	1A14A2A4C3	CAPACITOR 14752		4034-433 215B1C103M2K	1	1	1						
C352	1A14A2A9C4	CAPACITOR 14752		4018-218 217A1B224K2	1	2	2						
C353	1A14A2A9C5	CAPACITOR 14752		SAME AS C352 217A1B224K2	1	REF	REF						
C354	1A14A2A9C6	CAPACITOR 04062		4034-815 DM19-222K	1	1	1						
C355	1A14A2A9C7	CAPACITOR 81349		4034-777 CS13BF105K	1	3	7						
C356	1A14A2A9C8	CAPACITOR 81349		SAME AS C355 CS13BF105K	1	REF	REF						
C357	1A14A2A9C9	CAPACITOR 81349		SAME AS C355 CS13BF105K	1	REF	REF						
C358	1A14A2A9C10	CAPACITOR 04062		4034-434 DM19-202J	1	1	1						
C359	1A14A2A9C11	CAPACITOR 81349		SAME AS A459 CS13BE476K	1	1	REF						
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 119 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34684																							
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	SHEET 9	TOTAL RECM/ ORDERED	10	UNIT PRICE 11		EXTENDED UNIT PRICE 12		REMARKS
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	RECM. MAINT. QTY./ FACTOR	18	RECM. QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	Dollars	Cents	Dollars	Cents	
C360			1A14A2A9C12		CAPACITOR		01002		4034-435 69F360		1	2	2										
C361			1A14A2A9C13		CAPACITOR		01002		SAME AS C360 69F360		1	REF	REF										
C362			1A14A2A9CR1		SEMICONDUCTOR		12969		4092-945 UZ712		1	1	1										
C363			1A14A2A9CR2		SEMICONDUCTOR		80131		SAME AS A163 1N3277		1	5	REF										
C364			1A14A2A9CR3		SEMICONDUCTOR		80131		SAME AS A163 1N3277		1	REF	REF										
C365			1A14A2A9CR4		SEMICONDUCTOR		80131		SAME AS A163 1N3277		1	REF	REF										
C366			1A14A2A9CR5		SEMICONDUCTOR		80131		SAME AS A163 1N3277		1	REF	REF										
C367			1A14A2A9CR6		SEMICONDUCTOR		80131		SAME AS A163 1N3277		1	REF	REF										
C368			1A14A2A9J1		CONNECTOR		98278		SAME AS B506 31-65		1	1	REF										
C369			1A14A2A9K1		RELAY, REED		15636		SAME AS A201 201-3		1	5	REF										
C370			1A14A2A9K2		RELAY, REED		15636		SAME AS A201 201-3		1	REF	REF										
C371			1A14A2A9K3		RELAY, REED		15636		SAME AS A201 201-3		1	REF	REF										
CONTRACT NUMBER													NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.		P-5114B
CONTRACTOR WINSTON RESEARCH CORP.													DATE OF LIST				1 AUGUST 1966				REVISION		PAGE 120 OF 193

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34684																	
ITEM OR SEQUENCE NUMBER	1 2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	4 ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T 9	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS		
			15 ITEM AND LOT NO.	16 FEDERAL MFR CODE							11 Dollars	12 Cents	13 Dollars	14 Cents			
SMR CODE	13	STOCK NUMBER	14	15	17 MANUFACTURER'S PART NUMBER	18 RECM MAINT. QTY./ FACTOR	19 QTY./ QTY/ FACTOR	20 USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS				22		
C372		1A14A2A9K4		RELAY, REED 15636	SAME AS A201 201-3	1	REF	REF									
C373		1A14A2A9K5		RELAY, REED 15636	SAME AS A201 201-3	1	REF	REF									
C374		1A14A2A9L1		INDUCTOR 72259	4046-903 WEEVL12000	1	1	1									
C375		1A14A2A9MP1		INSULATOR, XSTR 19080	SAME AS A065 RCT018100-1	5	5	REF									
C376		1A14A2A9MP2		PRINTED WIRE MD 17774	34686-99	1	1	1									
C377		1A14A2A9Q1		TRANSISTOR 80131	4224-918 2N3566	1	2	10									
C378		1A14A2A9Q2		TRANSISTOR 80131	SAME AS C377 2N3566	1	REF	REF									
C379		1A14A2A9Q3		TRANSISTOR 80131	4224-925 2N3638A	1	3	6									
C380		1A14A2A9Q4		TRANSISTOR 80131	SAME AS C379 2N3638A	1	REF	REF									
C381		1A14A2A9Q5		TRANSISTOR 80131	SAME AS C379 2N3638A	1	REF	REF									
C382		1A14A2A9R1		RESISTOR 81349	SAME AS A084 RC07GF333J	1	1	REF									
C383		1A14A2A9R2		RESISTOR 81349	SAME AS A563 RC07GF472J	1	2	REF									
CONTRACT NUMBER														MODEL/TYPE NO.		P-5114B	
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CONTRACT NUMBER	NOMENCLATURE	MODEL/TYPE NO.
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34684

ITEM OR SEQUENCE NUMBER	1 2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	SHEET PAGE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
				4	5							11 Dollars	12 Cents	13 Dollars	14 Cents		
SMR CODE	13	STOCK NUMBER	14	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	21	SPARES ALLOCATIONS				22	
C408		1A14A2A9Z1		MICROELEC MODUL	17672	4118-952 FF1514B	1	4	4								
C409		1A14A2A9Z2		MICROELEC MODUL	17672	SAME AS C408 FF1514B	1	REF	REF								
C410		1A14A2A9Z3		MICROELEC MODUL	17672	SAME AS C408 FF1514B	1	REF	REF								
C411		1A14A2A9Z4		MICROELEC MODUL	17672	SAME AS C408 FF1514B	1	REF	REF								
C412		1A14A2A9Z5		MICROELEC MODUL	17672	4118-963 ST2514L	1	2	2								
C413		1A14A2A9Z6		MICROELEC MODUL	17672	SAME AS C412 ST2514L	1	REF	REF								

CONTRACT NUMBER

NOMENCLATURE

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34687																				
ITEM OR SEQUENCE NUMBER 1	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER 3	ITEM NAME 4		PRIME CONTRACTOR'S PART NUMBER 5	QTY. PER ASSY. 6	QTY. PER COMP. 7	QTY. PER ARTICLE 8	TOTAL RECM/ ORDERED 10	UNIT PRICE 11		EXTENDED UNIT PRICE 12		REMARKS							
		ITEM AND LOT NO. 15	FEDERAL MFR CODE 16						Dollars	Cents	Dollars	Cents								
SMR CODE 13	STOCK NUMBER 14	15	16	17	RECM MAINT. QTY./FACTOR 18	RECM QTY./ON 19	USA- BLE CODE 20	OPTIONAL 21	SPARES ALLOCATIONS 22											
C451	1A14A2A10Q3	TRANSISTOR 80131		SAME AS C377 2N3566	1	3	REF													
C452	1A14A2A10Q4	TRANSISTOR 80131		SAME AS C377 2N3566	1	REF	REF													
C453	1A14A2A10Q5	TRANSISTOR 80131		SAME AS C379 2N3638A	1	REF	REF													
C454	1A14A2A10Q6	TRANSISTOR 80131		SAME AS C377 2N3566	1	REF	REF													
C455	1A14A2A10R1	RESISTOR 81349		SAME AS A887 RC07GF103J	1	4	REF													
C456	1A14A2A10R2	RESISTOR 81349		SAME AS A094 RC07GF222J	1	2	REF													
C457	1A14A2A10R3	RESISTOR 81349		SAME AS A094 RC07GF222J	1	REF	REF													
C458	1A14A2A10R4	RESISTOR 81349		SAME AS A093 RC07GF332J	1	1	REF													
C459	1A14A2A10R5	RESISTOR 81349		SAME AS A105 RC07GF202J	1	1	REF													
C460	1A14A2A10R6	RESISTOR 81349		SAME AS A104 RC07GF153J	1	1	REF													
C461	1A14A2A10R7	RESISTOR 81349		SAME AS A088 RC07GF203J	1	1	REF													
C462	1A14A2A10R8	RESISTOR 81349		SAME AS A887 RC07GF103J	1	REF	REF													
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B								
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 126 OF 193								

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34742

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER TICLE	8	9	10	UNIT PRICE 11 Dollars	12	EXTENDED UNIT PRICE 12 Dollars	REMARKS
SMR CODE	13	14	STOCK NUMBER	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
C500		1A14A2A10A1	MODULE ASSY 17774						1	1	1	1	1	1	1	1	1	1	1	
C501		1A14A2A10A1C1	CAPACITOR 16546						1	1	2	2	2	2	2	2	2	2	2	
C502		1A14A2A10A1C2	CAPACITOR 16546						1	1	2	2	2	2	2	2	2	2	2	
C503		1A14A2A10A1C3	CAPACITOR 16546						1	1	2	2	2	2	2	2	2	2	2	
C504		1A14A2A10A1C4	CAPACITOR 16546						1	1	REF	REF	REF	REF	REF	REF	REF	REF	REF	
C505		1A14A2A10A1C5	CAPACITOR 16546						1	1	REF	REF	REF	REF	REF	REF	REF	REF	REF	
C506		1A14A2A10A1C6	CAPACITOR 16546						1	1	REF	REF	REF	REF	REF	REF	REF	REF	REF	
C507		1A14A2A10A1C7	CAPACITOR 17554						1	1	1	1	1	1	1	1	1	1	1	
C508		1A14A2A10A1C8	CAPACITOR 16546						1	1	1	1	1	1	1	1	1	1	1	
C509		1A14A2A10A1C9	CAPACITOR 16546						1	1	1	1	1	1	1	1	1	1	1	
C510		1A14A2A10A1CR1	SEMICONDUCTOR 80131						1	1	2	2	2	2	2	2	2	2	2	
C511		1A14A2A10A1CR2	SEMICONDUCTOR 80131						1	1	REF	REF	REF	REF	REF	REF	REF	REF	REF	

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE																											
34742																											
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER ARTICLE	8	TOTAL REQD/ ORDERED	9	UNIT PRICE	11	EXTENDED UNIT PRICE	12	REMARKS						
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16			REC'D MAINT. QTY./ FACTOR	18	REC'D QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	Dollars	Cents	SPARES ALLOCATIONS	22					
C512			1A14A2A10A1MP1		MTG PAD	07047			1	1	1	1	1	1	1												
C513			1A14A2A10A1MP2		PLATE, ID	17774			1	1	1	1	1	1	1												
C514			1A14A2A10A1MP3		COMPONENT ASSY	17774			1	1	1	1	1	1	1												
C515			1A14A2A10A1MP4		MODULE	17774			1	1	1	1	1	1	1												
C516			1A14A2A10A1MP5		MODULE	17774			1	1	1	1	1	1	1												
C517			1A14A2A10A1MP6		INSULATOR	86928			1	1	1	1	1	1	1												
C518			1A14A2A10A1Q1		TRANSISTOR	80131			1	1	1	1	3	3	3												
C519			1A14A2A10A1Q2		TRANSISTOR	80131			1	1	1	1	REF	REF	REF												
C520			1A14A2A10A1Q3		TRANSISTOR	80131			1	1	1	1	REF	REF	REF												
C521			1A14A2A10A1Q4		TRANSISTOR	80131			1	1	1	1	2	2	2												
C522			1A14A2A10A1Q5		TRANSISTOR	80131			1	1	1	1	REF	REF	REF												
C523			1A14A2A10A1R1		RESISTOR	81349			1	1	1	1	12	REF	REF												
CONTRACT NUMBER														NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.		P-5114B			
CONTRACTOR														WINSTON RESEARCH CORP.				DATE OF LIST				1 AUGUST 1966		REVISION		PAGE 129 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34742													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	15	FEDERAL MFR CODE	17	RECM. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21	73				
C524	1A14A2A10A1R4	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C525	1A14A2A10A1R5	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C526	1A14A2A10A1R6	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C527	1A14A2A10A1R7	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C528	1A14A2A10A1R8	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C529	1A14A2A10A1R9	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C530	1A14A2A10A1R10	RESISTOR 81349		SAME AS C387 RC07GF152J	1	2	REF						
C531	1A14A2A10A1R11	RESISTOR 81349		SAME AS C387 RC07GF152J	1	REF	REF						
C532	1A14A2A10A1R12	RESISTOR 81349		SAME AS A576 RC07GF271J	1	2	REF						
C533	1A14A2A10A1R13	RESISTOR 81349		SAME AS A573 RC07GF471J	1	REF	REF						
C534	1A14A2A10A1R14	RESISTOR 81349		SAME AS A087 RC07GF102J	1	2	REF						
C535	1A14A2A10A1R15	RESISTOR 81349		SAME AS A089 RC07GF682J	1	2	REF						
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34742													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER COMP.	QTY. PER AR- TICLE	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL INFR CODE						Dollars	Cents	Dollars	Cents	
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS				22
C536	1A14A2A10A1R16	RESISTOR	81349	4165-676 RC07GF432J	1	1	2						
C537	1A14A2A10A1R17	RESISTOR	81349	SAME AS A576 RC07GF271J	1	REF	REF						
C538	1A14A2A10A1R18	RESISTOR	81349	SAME AS A538 RC07GF471J	1	REF	REF						
C539	1A14A2A10A1R19	RESISTOR	81349	SAME AS A087 RC07GF102J	1	REF	REF						
C540	1A14A2A10A1R20	RESISTOR	81349	SAME AS A089 RC07GF682J	1	REF	REF						
C541	1A14A2A10A1R21	RESISTOR	81349	SAME AS C536 RC07GF432J	1	REF	REF						
C542	1A14A2A10A1R22	RESISTOR	81349	4165-653 RC07GF431J	1	2	2						
C543	1A14A2A10A1R23	RESISTOR	81349	SAME AS C542 RC07GF431J	1	REF	REF						
C544	1A14A2A10A1R24	RESISTOR	81349	SAME AS A573 RC07GF471J	1	REF	REF						
C545	1A14A2A10A1R25	RESISTOR	81349	SAME AS A573 RC07GF471J	1	REF	REF						
C546	1A14A2A10A1R26	RESISTOR	81349	SAME AS A573 RC07GF471J	1	REF	REF						
C547	1A14A2A10A1Z1	NETWORK	07263	4118-962 U8A991428X	1	3	3						

CONTRACT NUMBER
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34742																						
ITEM OR SEQUENCE NUMBER	1 2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS			
				ITEM AND LOT NO.	15										Dollars	Cents	Dollars	Cents				
SHR CODE	13	STOCK NUMBER	14	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	REC'D QTY./ FACTOR	18	REC'D QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	SPARES ALLOCATIONS		22				
C548		1A14A2A10A1Z2		NETWORK	07263	SAME AS C547 U8A991428X		1	REF	REF		REF										
C549		1A14A2A10A1Z3		NETWORK	07263	SAME AS C547 U8A991428X		1	REF	REF		REF										
C550		1A14A2A10A1Z4		NETWORK	07263	4118-959 9591522		1	REF	REF		REF										
C551		1A14A2A10A1Z5		NETWORK	07263	SAME AS C550 9591522		1	REF	REF		REF										
C552		1A14A2A10A1Z6		NETWORK	07263	SAME AS C550 9591522		1	REF	REF		REF										
C553		1A14A2A10A1Z7		NETWORK	07263	SAME AS C550 9591522		1	REF	REF		REF										
C554		1A14A2A10A1Z8		NETWORK	07263	SAME AS C550 9591522		1	REF	REF		REF										
C555		1A14A2A10A1Z9		NETWORK	07263	SAME AS C550 9591522		1	REF	REF		REF										
C556		1A14A2A10A1Z10		NETWORK	07263	SAME AS C550 9591522		1	REF	REF		REF										
CONTRACT NUMBER															NOMENCLATURE		PORTABLE RECORDER/REPRODUCER		MODEL/TYPE NO.		P-5114B	
CONTRACTOR				WINSTON RESEARCH CORP.				DATE OF LIST				1 AUGUST 1966				REVISION				PAGE 132 OF 193		

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34690																					
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER TITLE	8	TOTAL REC'D/ ORDERED	9	UNIT PRICE 11 Dollars	10	EXTENDED UNIT PRICE 12 Dollars	REMARKS	
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	REC'D MAINT. QTY./ FACTOR	18	REC'D QTY./ FACTOR	19	USA- BLE ON CODE	20	SPARES ALLOCATIONS				
C582			1A14A2A11		PRINTED CKT BD						1	1	1	1				22			
C583			1A14A2A11C1		CAPACITOR						1		2	REF							
C584			1A14A2A11C2		CAPACITOR						1		REF	REF							
C585			1A14A2A11CR1		SEMICONDUCTOR						1		36	REF							
C586			1A14A2A11CR2		SEMICONDUCTOR						1		REF	REF							
C587			1A14A2A11CR3		SEMICONDUCTOR						1		REF	REF							
C588			1A14A2A11CR4		SEMICONDUCTOR						1		REF	REF							
C589			1A14A2A11CR5		SEMICONDUCTOR						1		REF	REF							
C590			1A14A2A11CR6		SEMICONDUCTOR						1		REF	REF							
C591			1A14A2A11CR7		SEMICONDUCTOR						1		REF	REF							
C592			1A14A2A11CR8		SEMICONDUCTOR						1		REF	REF							
C593			1A14A2A11CR9		SEMICONDUCTOR						1		REF	REF							
CONTRACT NUMBER																	NOMENCLATURE			PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO. P-5114B
CONTRACTOR WINSTON RESEARCH CORP.																	DATE OF LIST 1 AUGUST 1966			REVISION	PAGE 133 OF 193

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34690													
1	2	3	4	5	6	7	8	9	10	11	12	REMARKS	
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME FEDERAL MFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	SALES OFFICE	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents		
SMR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS			
13	14	15	16	17	18	19	20	21	22				
C594	1A14A2A11CR10	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C595	1A14A2A11CR11	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C596	1A14A2A11CR12	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C597	1A14A2A11CR13	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C598	1A14A2A11CR14	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C599	1A14A2A11CR15	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C600	1A14A2A11CR16	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C601	1A14A2A11CR17	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C602	1A14A2A11CR18	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C603	1A14A2A11CR19	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C604	1A14A2A11CR20	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
C605	1A14A2A11CR21	SEMICONDUCTOR 80131		SAME AS A163 1N3277	1	REF	REF						
CONTRACT NUMBER				NOMENCLATURE	PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B				
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966	REVISION				PAGE 134 OF 193				

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34690																
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	SPEC 9	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE 12	REMARKS
					4	5							Dollars	Cents		
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	18	19	20	OPTIONAL	21	Dollars	Cents		
C606			1A14A2A11CR22		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C607			1A14A2A11CR23		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C608			1A14A2A11CR24		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C609			1A14A2A11CR25		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C610			1A14A2A11CR26		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C611			1A14A2A11CR27		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C612			1A14A2A11CR28		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C613			1A14A2A11CR29		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C614			1A14A2A11CR30		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C615			1A14A2A11CR31		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C616			1A14A2A11CR32		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
C617			1A14A2A11CR33		SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF						
CONTRACT NUMBER					NOMENCLATURE			PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B				
CONTRACTOR WINSTON RESEARCH CORP.					DATE OF LIST 1 AUGUST 1966			REVISION				PAGE 135 OF 193				

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34690

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL RECN/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
1	3	15	16	5	6	7	8	9	10	11	12	13	14	
SMR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECN MAINT QTY./ FACTOR	RECN OML ON FACTOR	USA- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS				
13	14			17	18	19	20	21	22					
C618	1A14A2A11CR34	SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF							
C619	1A14A2A11CR35	SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF							
C620	1A14A2A11CR36	SEMICONDUCTOR	80131	SAME AS A163 IN3277	1	REF	REF							
C621	1A14A2A11K1	RELAY	24446	4156-921 3SAM1010	1	2	2							
C622	1A14A2A11K2	RELAY	02289	4156-925 2K2A126	1	4	12							
C623	1A14A2A11K3	RELAY	24446	SAME AS C621 3SAM1010	1	REF	REF							
C624	1A14A2A11K4	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF							
C625	1A14A2A11K5	RELAY	77342	4156-923 KHP17D11-24V	1	2	2							
C626	1A14A2A11K6	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF							
C627	1A14A2A11K7	RELAY	77342	SAME AS C625 KHP17D11-24V	1	REF	REF							
C628	1A14A2A11K8	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF							
C629	1A14A2A11MP1	INSULATOR	19080	SAME AS A065 RCT018100-1	2	2	REF							

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR

WINSTON RESEARCH CORP.

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34690														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	STOCK FILE	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
1	3	ITEM AND LOT NO.	4	5	6	7	8	9	10	Dollars	Cents	Dollars	Cents	
SWR CODE	14	15	FEDERAL MFR CODE	17	RECOM. MAINT. QTY./ FACTOR	RECOM. QTY./ FACTOR	US- ABLE OM CODE	OPTIONAL	21	SPARES ALLOCATIONS				22
13														
C630	1A14A2A11MP2	INSULATOR	19080	4116-975 RCRP800060-2A	2	2	2							
C631	1A14A2A11MP3	SOCKET	05574	4180-971 VB8-1AA6	4	4	12							
C632	1A14A2A11MP4	PRINTED CKT BD	17774	34692	1	1	1							
C633	1A14A2A11MP5	SOCKET	77342	4180-973 9KH2	2	2	2							
C634	1A14A2A11Q1	TRANSISTOR	80131	SAME AS A067 2N3694	1	2	REF							
C635	1A14A2A11Q2	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF							
C636	1A14A2A11R1	RESISTOR	81349	4165-749 RC07GF475J	1	1	2							
C637	1A14A2A11R2	RESISTOR	81349	SAME AS A094 RC07GF222J	1	4	REF							
C638	1A14A2A11R3	RESISTOR	81349	4165-869 RC20GF222J	1	2	3							
C639	1A14A2A11R4	RESISTOR	81349	SAME AS A094 RC07GF222J	1	REF	REF							
C640	1A14A2A11R5	RESISTOR	81349	SAME AS C638 RC20GF222J	1	REF	REF							
CONTRACT NUMBER		NOMENCLATURE			PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.		P-5114B			
CONTRACTOR		WINSTON RESEARCH CORP.			DATE OF LIST				1 AUGUST 1966		REVISION			
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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	STOCK NUMBER	ITEM AND LOT NO.	ITEM NAME	CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	TOTAL REQM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS																																					
										Dollars	Cents	Dollars	Cents																																						
													OPTIONAL		SPARES ALLOCATIONS																																				
													9	10																																					
													1	2																																					
													3	4																																					
													5	6	7	8																																			
													9	10																																					
													11	12																																					
													13	14																																					
													15	16																																					
													17	18	19	20																																			
													21	22																																					
C666	1A14A2A12			LOGIC ASSY. 2 17774	34694	1	1	1																																											
C667	1A14A2A12C1			CAPACITOR 81349	4034-737 CS13BF108K	1	1	2																																											
C668	1A14A2A12C2			CAPACITOR 81349	SAME AS C44 CS13BF225K	1	1	REF																																											
C669	1A14A2A12C3			CAPACITOR 24446	SAME AS B420 62F403G2	1	3	REF																																											
C670	1A14A2A12C4			CAPACITOR 81349	SAME AS C355 CS13BF105K	1	4	REF																																											
C671	1A14A2A12C5			CAPACITOR 81349	SAME AS C355 CS13BF105K	1	REF	REF																																											
C672	1A14A2A12C6			CAPACITOR 81349	SAME AS C355 CS13BF105K	1	REF	REF																																											
C673	1A14A2A12C7			CAPACITOR 81349	SAME AS C355 CS13BF105K	1	REF	REF																																											
C674	1A14A2A12C8			CAPACITOR 24446	SAME AS B420 62F403G2	1	REF	REF																																											
C675	1A14A2A12C9			CAPACITOR 24446	SAME AS B420 62F403G2	1	REF	REF																																											
C676	1A14A2A12CR1			SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	32	REF																																											
C677	1A14A2A12CR2			SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF																																											
CONTRACT NUMBER													NOMENCLATURE													PORTABLE RECORDER/REPRODUCER													MODEL/TYPE NO. P-5114B												
CONTRACTOR WINSTON RESEARCH CORP.													DATE OF LIST 1 AUGUST 1966													REVISION													PAGE 138 OF 193												

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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	FEDERAL MFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
1	3	15	16	5	6	7	8	9	10	11	12		
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	SPARES ALLOCATIONS					
13	14	15	16	17	18	19	20	21	22				
C714	1A14A2A12K3	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF						
C715	1A14A2A12K4	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF						
C716	1A14A2A12K5	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF						
C717	1A14A2A12K6	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF						
C718	1A14A2A12K7	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF						
C719	1A14A2A12K8	RELAY	02289	SAME AS C622 2K2A126	1	REF	REF						
C720	1A14A2A12MP1	INSULATOR, XSTR	19080	SAME AS A065 RCT018100-1	8	8	REF						
C721	1A14A2A12MP2	PRINTED WIRE BD	17774	34695	1	1	1						
C722	1A14A2A12Q1	TRANSISTOR	80131	SAME AS A067 2N3694	1	6	REF						
C723	1A14A2A12Q2	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
C724	1A14A2A12Q3	TRANSISTOR	80131	SAME AS A067 2N3694	1	REF	REF						
C725	1A14A2A12Q4	TRANSISTOR	80131	4226-963 2N3136	1	2	4						

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34694																									
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL REC'D/ ORDERED	9	UNIT PRICE 11 Dollars	10	EXTENDED UNIT PRICE 12 Dollars	11	REMARKS				
SPR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	RECM. MAINT. QTY./ FACTOR	18	RECM. QTY./ FACTOR	19	USA- BLE OM CODE	20	OPTIONAL	21	SPARES ALLOCATIONS	22							
C726			1A14A2A12Q5		TRANSISTOR	80131	TRANSISTOR	80131	1	REF	1	REF	REF	REF											
C727			1A14A2A12Q6		TRANSISTOR	80131	TRANSISTOR	80131	1	REF	1	REF	REF	REF											
C728			1A14A2A12Q7		TRANSISTOR	80131	TRANSISTOR	80131	1	REF	1	REF	REF	REF											
C729			1A14A2A12Q8		TRANSISTOR	80131	TRANSISTOR	80131	1	REF	1	REF	REF	REF											
C730			1A14A2A12R1		RESISTOR	81349	RESISTOR	81349	1	6	9														
C731			1A14A2A12R2		RESISTOR	81349	RESISTOR	81349	1	4	REF														
C732			1A14A2A12R3		RESISTOR	81349	RESISTOR	81349	1	1	REF														
C733			1A14A2A12R4		RESISTOR	81349	RESISTOR	81349	1	2	2														
C734			1A14A2A12R5		RESISTOR	81349	RESISTOR	81349	1	REF	REF														
C735			1A14A2A12R6		RESISTOR	81349	RESISTOR	81349	1	1	REF														
C736			1A14A2A12R7		RESISTOR	81349	RESISTOR	81349	1	REF	REF														
C737			1A14A2A12R8		RESISTOR	81349	RESISTOR	81349	1	1	5														
CONTRACT NUMBER														NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B			
CONTRACTOR WINSTON RESEARCH CORP.														DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 143 OF 193			

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34694																
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S H E E T	TOTAL RECN/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
				ITEM AND LOT NO.	FEDERAL MFG CODE							11 Dollars	12 Cents	11 Dollars	12 Cents	
SMR CODE	13		STOCK NUMBER	15	16	17	18	19	20	OPTIONAL	21	SPARES ALLOCATIONS		22		
C738			1A14A2A12R9	RESISTOR	81349	SAME AS A563 RC07GF472J	1	1	REF							
C739			1A14A2A12R10	RESISTOR	81349	SAME AS C730 RC07GF512J	1	REF	REF							
C740			1A14A2A12R11	RESISTOR	81349	SAME AS A083 RC07GF104J	1	1	REF							
C741			1A14A2A12R12	RESISTOR	81349	SAME AS C733 RC07GF513J	1	REF	REF							
C742			1A14A2A12R13	RESISTOR	81349	SAME AS A104 RC07GF153J	1	2	REF							
C743			1A14A2A12R14	RESISTOR	81349	SAME AS A087 RC07GF102J	1	REF	REF							
C744			1A14A2A12R15	RESISTOR	81349	SAME AS C730 RC07GF512J	1	REF	REF							
C745			1A14A2A12R16	RESISTOR	81349	SAME AS C636 RC07GF475J	1	1	REF							
C746			1A14A2A12R17	RESISTOR	81349	SAME AS C392 RC07GF223J	1	1	REF							
C747			1A14A2A12R18	RESISTOR	81349	4165-695 RC07GF273J	1	1	1							
C748			1A14A2A12R19	RESISTOR	81349	SAME AS A104 RC07GF153J	1	REF	REF							
C749			1A14A2A12R20	RESISTOR	81349	SAME AS A087 RC07GF102J	1	REF	REF							
CONTRACT NUMBER			NOMENCLATURE			PORTABLE RECORDER/REPRODUCER			MODEL/TYPE NO.			P-5114B				
CONTRACTOR			WINSTON RESEARCH CORP.			DATE OF LIST			1 AUGUST 1966			REVISION				
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34580

ITEM OR SEQUENCE NUMBER	1	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	QTY. PER AR- ON CODE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
				4	5							11	12	Dollars	Cents		Dollars
SMR CODE	13	STOCK NUMBER	14	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	18	19	20	OPTIONAL	21	SPARES ALLOCATIONS				22	
C786		1A14A2A13		PLATE ASSY	17774	34580	1	1	1								
C787		1A14A2A13CR1		SEMICONDUCTOR	80131	SAME AS A163 1N3277	1	3	REF								
C788		1A14A2A13CR4		SEMICONDUCTOR	80131	SAME AS A163 1N3277	1	REF	REF								
C789		1A14A2A13CR5		SEMICONDUCTOR	80131	SAME AS A163 1N3277	1	REF	REF								
C790		1A14A2A13J1		CONNECTOR	81312	4074-878 MRA14PJTC6H	1	1	1								
C791		1A14A2A13K1		SOLENOID	82788	4578-965 40C24DCBX	1	2	2								
C792		1A14A2A13K2		SOLENOID	82788	SAME AS C791 40C24DCBX	1	REF	REF								
C793		1A14A2A13K5		RELAY	02289	SAME AS B429 2T1C126	1	1	REF								
C794		1A14A2A13MP1		SPRING	05341	4816-924 BSR6	4	4	4								
C795		1A14A2A13MP2		SPRING	84830	4582-019 LC022C1	2	2	2								
C796		1A14A2A13MP3		SCREW	03038	4792-935 LP22U02J16	2	2	2								
C797		1A14A2A13MP4		BEARING, BALL	43334	4410-298 MT823SJ	4	4	4								

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34580													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
13	14	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS		22	
C810	1A14A2A13MP17	BELT,	MYLAR 17774	31789	1	1	1	1					
C811	1A14A2A13MP18	SHIM	17774	34412-97	1	1	1	1					
C812	1A14A2A13MP19	SHIM	17774	33412-98	1	1	1	1					
C813	1A14A2A13MP20	SPACER, PUCK ARM	17774	34588	2	2	2	2					
C814	1A14A2A13MP21	RING, SLINGER	17774	34699	2	2	2	2					
C815	1A14A2A13MP22	PULLEY, CAPSTAN	17774	34714-98	1	1	1	1					
C816	1A14A2A13MP23	PULLEY, CAPSTAN	17774	34714-99	1	1	1	1					
C817	1A14A2A13MP24	SHIELD, DUST	17774	34715	2	2	2	2					
C818	1A14A2A13MP25	PLATE, SOLENOID	17774	34721	2	2	2	2					
C819	1A14A2A13MP26	CAPSTAN	17774	34722	2	2	2	2					
C820	1A14A2A13MP27	SPRING, RETURN	17774	34724-98	1	1	1	1					
C821	1A14A2A13MP28	SPRING, RETURN	17774	34724-99	1	1	1	1					

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34580																				
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM AND LOT NO.	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	9	10	TOTAL RECH/ ORDERED	UNIT PRICE 11 Dollars Cents	12 Dollars Cents	REMARKS
SMR CODE	13		STOCK NUMBER	14	FEDERAL MFR CODE	15	16	17	RECH MAINT. QTY./ FACTOR	18	RECH OWNL. QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	SPARES ALLOCATIONS 22			
C822			1A14A2A13MP29		PLATE	17774	34728		1	1	1	1	1							
C823			1A14A2A13MP30		ARM, ACTUATING	17774	34729		2	2	2	2	2							
C824			1A14A2A13MP31		STOP, PUCK ARM	17774	34730		2	2	2	2	2							
C825			1A14A2A13MP32		SPACER, BEARING	17774	34731		2	2	2	2	2							
C826			1A14A2A13MP33		WASHER, PULLEY	17774	34733		2	2	2	2	2							
C827			1A14A2A13MP34		BRACKET	17774	34740		1	1	1	1	1							
C828			1A14A2A13MP35		BRACKET, TERMINAL	17774	34741		1	1	1	1	1							
C829			1A14A2A13MP36		RING, RETAINING	79136	4564-973 5008-75		4	4	4	4	4							
C830			1A14A2A13MP37		RING, RETAINING	79136	4564-974 5100-50		2	2	2	2	2							
C831			1A14A2A13Q1		TRANSISTOR	80131	4224-942 2N3054		1	1	1	5	5							
C832			1A14A2A13R1		RESISTOR	81349	SAME AS C387 RC07GF152J		1	1	1	REF	REF							
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B								
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 149 OF 193								

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34586-1

34586-1

ITEM OR SEQUENCE NUMBER	IDENT	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASST.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RCM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
			ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SMR CODE		STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT QTY./ FACTOR	RECM DVHL QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
13		14	15	16	17	18	19	20	21	22				
C858		1A14A2A13A1-A	ARM ASSY, PUCK 17774		34586-1	1	1	1						
C859		1A14A2A13A1-AMP1	BEARING, BALL 05541		SAME AS A972 BS34	2	2	REF						
C860		1A14A2A13A1-AMP2	BEARING, BALL 83086		SAME AS A979 SFR1810PPEE	2	2	REF						
C861		1A14A2A13A1-AMP3	GUIDE, TAPE 17774		34587	1	1	2						
C862		1A14A2A13A1-AMP4	SPACER, PUCK 17774		34589	1	1	2						
C863		1A14A2A13A1-AMP5	SHAFT, PUCK 17774		34590	1	1	2						
C864		1A14A2A13A1-AMP6	PUCK, PRESSURE 17774		34591	1	1	2						
C865		1A14A2A13A1-AMP7	SHAFT, PUCK ARM 17774		34592	1	1	2						
C866		1A14A2A13A1-AMP8	ARM, PUCK 17774		34593-99	1	1	2						
C867		1A14A2A13A1-AMP9	PIN, SPRING 72962		4544-940 79-028-125-0875	2	2	4						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34586-2													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS			
1	3	4	5	6	7	8	10	11	12				
SPR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	Dollars	Cents				
13	14	15	16	18	19	20	21	Dollars	Cents	SPARES ALLOCATIONS			
C893	1A14A2A13A1-B	ARM ASSY, PUCK 17774	34586-2	1	1	1	22						
C894	1A14A2A13A1-BMP1	BEARING, BALL 05541	SAME AS A972 BS34	2	2	REF							
C895	1A14A2A13A1-BMP2	BEARING, CALL 83086	SAME AS A979 SFR1810PPEE	2	2	REF							
C896	1A14A2A13A1-BMP3	GUIDE, TAPE 17774	SAME AS C861 34587	1	1	REF							
C897	1A14A2A13A1-BMP4	SPACER, PUCK 17774	SAME AS C862 34589	1	1	REF							
C898	1A14A2A13A1-BMP5	SHAFT, PUCK 17774	SAME AS C863 34590	1	1	REF							
C899	1A14A2A13A1-BMP6	PUCK, PRESSURE 17774	SAME AS C864 34591	1	1	REF							
C900	1A14A2A13A1-BMP7	SHAFT, PUCK ARM 17774	SAME AS C865 34592	1	1	REF							
C901	1A14A2A13A1-BMP8	ARM, PUCK 17774	SAME AS C866 34593-98	1	1	REF							
C902	1A14A2A13A1-BMP9	PIN, SPRING 72962	SAME AS C867 79-028-125-0875	2	2	REF							
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 151 OF 193	

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34623

1	2	3	4	5	6	7	8	9	10	11	12	REMARKS
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents			
13	14	15	16	17	18	19	20	21	22			
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. OVHL. QTY./ FACTOR	USA- BLE ON CODE						
C928	1A14A2A13A2	BELT CHG ASSY 17774	34623	1	1	1	1					
C929	1A14A2A13A2CR2	SEMICONDUCTOR 80131	SAME AS A163 1N3277	1	2	REF	REF					
C930	1A14A2A13A2CR3	SEMICONDUCTOR 80131	SAME AS A163 1N3277	1	REF	REF	REF					
C931	1A14A2A13A2E8	TERMINAL, INSUL 88245	SAME AS C804 1434	1	4	REF	REF					
C932	1A14A2A13A2E9	TERMINAL, INSUL 88245	SAME AS C804 1434	1	REF	REF	REF					
C933	1A14A2A13A2E13	TERMINAL, INSUL 88245	SAME AS C804 1434	1	REF	REF	REF					
C934	1A14A2A13A2E14	TERMINAL, INSUL 88245	SAME AS C804 1434	1	REF	REF	REF					
C935	1A14A2A13A2K3	SOLENOID 81840	4578-967 H2744-032LH	1	2	2	2					
C936	1A14A2A13A2K4	SOLENOID 81840	SAME AS C935 H2744-032LH	1	REF	REF	REF					
C937	1A14A2A13A2MP1	TERMINAL, INSUL 88245	SAME AS C803 1411B	6	6	REF	REF					
C938	1A14A2A13A2MP2	TERMINAL, LUG 78189	SAME AS C805 2104-04-00	2	2	REF	REF					
C939	1A14A2A13A2MP3	ARM, BELT CHNG 17774	34717	2	2	2	2					

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34623														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS			
1	2	3	4	5	6	7	8	9	10	11	12	13		
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL INFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	22				
13	14	15	16	17	18	19	20	21						
C940	1A14A2A13A2MP4	BASE, BELT CHNG 17774		34720	1	1	1							
C941	1A14A2A13A2Q1	TRANSISTOR 80131		SAME AS C831 2N3054	1	2	1							
C942	1A14A2A13A2Q2	TRANSISTOR 80131		SAME AS C831 2N3054	1	REF	REF							
C943	1A14A2A13A2R2	RESISTOR 81349		SAME AS C387 RC07GF152J	1	2	REF							
C944	1A14A2A13A2R3	RESISTOR 81349		SAME AS C387 RC07GF152J	1	REF	REF							
CONTRACT NUMBER														
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B						
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34457

ITEM OR SEQUENCE NUMBER	1	2	3	ITEM NAME 4		PRIME CONTRACTOR'S PART NUMBER 5	QTY. PER ASSY. 6	QTY. COMP. 7	QTY. PER AR- TICLE 8	TOTAL RECM/ ORDERED 10	UNIT PRICE 11 Dollars Cents		EXTENDED UNIT PRICE 12 Dollars Cents		REMARKS
SMR CODE	13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS				
C970		1A14A2A13A3	MOTOR ASSY 17774	FEDERAL MFR CODE 16	MANUFACTURER'S PART NUMBER 17	RECM MANT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL						
C971		1A14A2A13B1	MOTOR, DC 17774		34457	1	1	1							
C972		1A14A2A13A3C1	CAPACITOR 14752		31665	1	1	1							
C973		1A14A2A13A3J1	CONNECTOR 98278		4017-676 210D1C104J	1	1	1							
C974		1A14A2A13A3MP1	SHIM		S0S50N031-49	1	1	1							
C975		1A14A2A13A3MP2	TERMINAL 78189		G78-6	1	1	1							
C976		1A14A2A13A3MP3	HOUSING, MOTOR 17774		SAME AS C807 2905-04-00	3	3	REF							
C977		1A14A2A13A3MP4	BRUSH		31672	2	2	2							
C978		1A14A2A13A3MP5	SPRING		31673	2	2	2							
C979		1A14A2A13A3MP6	SPACER		32118	1	1	1							
C980		1A14A2A13A3MP7	WASHER, PULLEY 17774		32380	1	1	1							
C981		1A14A2A13A3MP8	PLATE, MTG 17774		34222	1	1	1							
					34459	1	1	1							

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34457																					
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL REC'D/ ORDERED	9	UNIT PRICE 11	10	EXTENDED UNIT PRICE 12	REMARKS	
					ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	17	RECM. QTY./ FACTOR	18	RECM. QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	Dollars	Cents	Dollars	Cents	
SMR CODE	13		STOCK NUMBER	14													SPARES ALLOCATIONS				
																				22	
C982			1A14A2A13A3MP9		PULLEY	17774	34460		1	1	1	1	1	1							
C983			1A14A2A13A3MP10		GEAR, ROTATING	17774	34462		1	1	1	1	1	1							
C984			1A14A2A13A3MP11		GEAR, FIXED	17774	34463		1	1	1	1	1	1							
C985			1A14A2A13A3MP12		MOUNT, GEAR FIX	17774	34464		1	1	1	1	1	1							
C986			1A14A2A13A3MP13		COVER, BRUSH	17774	34465		1	1	1	1	1	1							
C987			1A14A2A13A3MP14		COVER	17774	34935		1	1	1	1	1	1							
C988			1A14A2A13A3MP15		COVER	17774	34935-99		1	1	1	1	1	1							
C989			1A14A2A13A3MP16		BUSHING	17774	34936		1	1	1	1	1	1							
C990			1A14A2A13A3MP17		BOLT, SPADE	73734	4792-932 52090		2	2	2	2	2	2							
CONTRACT NUMBER																					
NOMENCLATURE							PORTABLE RECORDER/REPRODUCER							MODEL/TYPE NO. P-5114B							
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34576-1

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL REC'D/ ORDERED	9	10	UNIT PRICE 11 Dollars	12	EXTENDED UNIT PRICE 12 Dollars	REMARKS
SWR CODE	13	14	STOCK NUMBER	15	FEDERAL MFR CODE	16	MANUFACTURER'S PART NUMBER	17	RECM MANT. QTY./ FACTOR	18	RECM QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	22	SPARES ALLOCATIONS	23	24	
D017			1A14A2A14	BRAKE ASSY 17774			34576-1		1	1	1	1	1	1							
D018			1A14A2A14B1	MOTOR, REEL 17774			4522-954MOD 34904		1	1	1	1	2								
D019			1A14A2A14C1	CAPACITOR 14752			4034-456 210B1C104		1	1	1	1	2								
D020			1A14A2A14CR1	SEMICONDUCTOR 80131			SAME AS A163 IN3277		1	1	1	1	REF								
D021			1A14A2A14DS1	LAMP, INCANDNT 96906			4120-953 MS35237-327		1	1	1	1	1								
D022			1A14A214J801	CONNECTOR 81312			4074-877 MRE18PJ6		1	1	1	1	2								
D023			1A14A2A14K1	SOLENOID 81840			4578-954 H2593-032		1	1	1	1	1								
D024			1A14A2A14MP1	SCREW, MACHINE 95987			4792-947 N440-1-4		1	1	1	1	1								
D025			1A14A2A14MP2	TERMINAL, STUD 88245			4207-952 2002A		2	2	2	2	2								
D026			1A14A2A14MP3	TERMINAL, LUG 78189			SAME AS C807 2905-04-00		1	1	1	1	REF								
D027			1A14A2A14MP4	YOKE, BRAKE BND 17774			31019		1	1	1	1	2								
D028			1A14A2A14MP5	BRAKE BAND ASSY 17774			31700		1	1	1	1	2								

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34576-1																								
ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	QTY. PER AR- TICLE	9	10	UNIT PRICE 11 Dollars	Cents	12	EXTENDED UNIT PRICE Dollars	Cents	REMARKS				
					ITEM AND LOT NO.	FEDERAL MFR CODE																		
SNR CODE	13		STOCK NUMBER	14	15	16	17		18	19	20	21	SPARES ALLOCATIONS							22				
D029			1A14A2A14MP6		BAND, BRAKE	17774	31701		1	1	2													
D030			1A14A2A14MP7		LINING, BRAKE	17774	31702		1	1	2													
D031			1A14A2A14MP8		BUSHING, BRAKE	17774	31704		1	1	2													
D032			1A14A2A14MP9		TERMINAL, LAMP	17774	32401		1	1	1													
D033			1A14A2A14MP10		PLATE, MTR MTG	17774	32718-99		1	1	2													
D034			1A14A2A14MP11		SPACER, BRK BND	17774	32886		1	1	2													
D035			1A14A2A14MP12		NUT, BRAKE ADJ	17774	32887		1	1	2													
D036			1A14A2A14MP13		GUIDE, BRAKE	17774	32916-99		1	1	1													
D037			1A14A2A14MP14		ARM, ACTUATING	17774	33099-99		1	1	1													
D038			1A14A2A14MP15		INSULATOR, XSTR	17774	33291		1	1	1													
D039			1A14A2A14MP16		INSULATOR, XSTR	17774	33292		1	1	1													
D040			1A14A2A14MP17		RETAINER, LAMP	17774	33293		1	1	1													
CONTRACT NUMBER														NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B		
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ITEM OR SEQUENCE NUMBER	1 2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER COMP.	QTY. PER AR- 12	UNIT PRICE 11 Dollars	UNIT PRICE 12 Cents	REMARKS
				4	5						
				ITEM AND LOT NO.	FEDERAL MFR CODE						
		STOCK NUMBER	14	15	16	17	18	19	20	21	22
D041		1A14A2A14MP18		RETAINER ASSY 17774		33294	1	1	1		
D042		1A14A2A14MP19		RETAINER, SPRING 17774		33295	1	1	1		
D043		1A14A2A14MP20		PLATE, REEL MFR 17774		34449	1	1	2		
D044		1A14A2A14MP21		DISK, SENSOR 17774		34450	1	1	1		
D045		1A14A2A14MP22		SENSOR ASSY 17774		34607	1	1	1		
D046		1A14A2A14MP23		PLATE, MTG 17774		34608	1	1	1		
D047		1A14A2A14MP24		PLATE, ADAPTER 17774		34610	1	1	2		
D048		1A14A2A14MP25		DRUM REEL BRKE 17774		34611	1	1	2		
D049		1A14A2A14MP26		WASHER 86928		SAME AS B187 5610-53	1	1	REF		
D050		1A14A2A14MP27		MTG KIT, XSTR 16758		4116-971 7274475	1	1	3		
D051		1A14A2A14MP28		MTG KIT, XSTR 16758		4116-970 7274633	1	1	2		
D052		1A14A2A14MP29		SPACER 06540		4580-892 8224A0440-17	3	3	6		

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34576-1														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	SHEET PAGE	TOTAL REQD/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
1	2	3	4	5	6	7	8	9	10	Dollars	Cents	Dollars	Cents	
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21		22				
D053	1A14A2A14MP30	SPACER	06540	4580-904 8236A0440-17	4	4	8							
D054	1A14A2A14P802	CONNECTOR	13550	4074-942 SM20PSKS	1	1	2							
D055	1A14A2A14Q1	TRANSISTOR	80131	4226-967 2N1487	1	1	2							
D056	1A14A2A14Q2	TRANSISTOR	80131	4226-966 2N2338	1	1	2							
D057	1A14A2A14Q3	TRANSISTOR	80131	SAME AS C831 2N3054	1	1	REF							
D058	1A14A2A14Q4	PHOTO TRANSISTOR	80131	SAME AS B919 2N886	1	1	REF							
D059	1A14A2A14R1	RESISTOR, VAR	81349	4142-879 RV6LAYS A102A	1	1	2							
D060	1A14A2A14R2	RESISTOR	81349	41690-151 RE70GR200	1	1	2							
D061	1A14A2A14R4	RESISTOR	81349	4174-918 RE60G2R50	1	1	2							
D062	1A14A2A14R5	RESISTOR, VAR	81349	4142-875 RV6LAYS A103A	1	1	2							
D063	1A14A2A14TP1	JACK, TIP	83330	4206-934 1501-102	1	1	2							
D064	1A14A2A14TP2	JACK, TIP	83330	4206-933 1501-104	1	1	2							
CONTRACT NUMBER		NOMENCLATURE			PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.		P-5114B			
CONTRACTOR		WINSTON RESEARCH CORP.			DATE OF LIST 1 AUGUST 1966				REVISION		PAGE 159 OF 193			

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34576-1													
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	REMARKS
	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	TOTAL REQD/ ORDERED	UNIT PRICE Dollars	UNIT PRICE Cents	EXTENDED UNIT PRICE Dollars			
SMR CODE													
13													
D065	1A14A2A14TS1	TERMINAL STRIP 71785	4202-971 363-12-07-010	1	1	2							
D066	1A14A2A14TS2	TERMINAL STRIP 71785	4202-972 353-18-07-001	1	1	2							
CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B													
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION PAGE 160 OF 193													

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34568													
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	REMARKS
REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	FEDERAL INFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12				
STOCK NUMBER	ITEM AND LOT NO.	FEDERAL INFR CODE	MANUFACTURER'S PART NUMBER	RECM. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	Dollars	Cents	Dollars	Cents		
13	14	15	16	17	18	19	20	21	22				
D092	1A14A2A14A1	AMPLIFIER	17774	1	1	1							
D093	1A14A2A14A1C1	CAPACITOR	81349	1	1	2							
D094	1A14A2A14A1CR1	SEMICONDUCTOR	80131	1	1	2							
D095	1A14A2A14A1CR2	SEMICONDUCTOR	80131	1	10	REF							
D096	1A14A2A14A1CR3	SEMICONDUCTOR	80131	1	REF	REF							
D097	1A14A2A14A1CR4	SEMICONDUCTOR	80131	1	REF	REF							
D098	1A14A2A14A1CR5	SEMICONDUCTOR	80131	1	REF	REF							
D099	1A14A2A14A1CR6	SEMICONDUCTOR	80131	1	REF	REF							
D100	1A14A2A14A1CR7	SEMICONDUCTOR	80131	1	REF	REF							
D101	1A14A2A14A1CR8	SEMICONDUCTOR	80131	1	REF	REF							
D102	1A14A2A14A1CR9	SEMICONDUCTOR	80131	1	REF	REF							
D103	1A14A2A14A1CR10	SEMICONDUCTOR	80131	1	REF	REF							
CONTRACT NUMBER													
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.				P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 161 OF 193	

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34568

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME 4	PRIME CONTRACTOR'S PART NUMBER 5	QTY. PER ASSY. 6	QTY. PER COMP. 7	QTY. AR- TICLE 8	TOTAL RECM/ ORDERED 9	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS
SMR CODE	13	14	15	16	17	18	19	20	21	22	23	24	25
D104	1A14A2A14A1CR11	SEMICONDUCTOR	80131		SAME AS A055 IN457A	1	REF	REF					
D105	1A14A2A14A1K1	RELAY	71482		4156-927 HF120ID00	1	3	6					
D106	1A14A2A14A1K2	RELAY	71482		SAME AS D105 HF120ID00	1	REF	REF					
D107	1A14A2A14A1K3	RELAY	71482		SAME AS D105 HF120ID00	1	REF	REF					
D108	1A14A2A14A1MP1	CONNECTOR	13550		4074-943 SM20SFSL	1	1	2					
D109	1A14A2A14A1MP2	MTG PAD	19080		SAME AS A065 RCT018100-1	1	1	REF					
D110	1A14A2A14A1MP3	CIRCUIT BOARD	17774		32914	1	1	2					
D111	1A14A2A14A1Q1	TRANSISTOR	80131		SAME AS C725 2N3136	1	1	REF					
D112	1A14A2A14A1R1	RESISTOR	81349		SAME AS A402 RC07GF331J	1	1	REF					
D113	1A14A2A14A1R2	RESISTOR	81349		SAME AS A108 RC07GF822J	1	1	REF					
D114	1A14A2A14A1R3	RESISTOR	81349		SAME AS A086 RC07GF242J	1	1	REF					
D115	1A14A2A14A1R4	RESISTOR	81349		4165-831 RC07GF510J	1	1	2					

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

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ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
								Dollars	Cents	Dollars	Cents	
D144	1A14A2A15	BRAKE ASSY 17774	34576-2	1	1	1						
D145	1A14A2A15B1	MOTOR, REEL 17774	SAME AS D018 34904	1	1	REF						
D146	1A14A2A15C1	CAPACITOR 14752	SAME AS D019 210B1C104	1	1	REF						
D147	1A14A2A15CR1	SEMICONDUCTOR 80131	SAME AS A163 1N3277	1	1	REF						
D148	1A14A2A15J901	CONNECTOR 81312	SAME AS D022 MRE18PJ6	1	1	REF						
D149	1A14A2A15K1	SOLENOID 81840	4578-953 H2073-032	1	1	1						
D150	1A14A2A15MP1	TERMINAL 78189	SAME AS C805 2104-04-00	1	1	REF						
D151	1A14A2A15MP2	YOKE, BRAKE BND 17774	SAME AS D027 31019	1	1	REF						
D152	1A14A2A15MP3	BRAKE BAND ASSY 17774	SAME AS D028 31700	1	1	REF						
D153	1A14A2A15MP4	BAND, BRAKE 17774	SAME AS D029 31701	1	1	REF						
D154	1A14A2A15MP5	LINING, BRAKE 17774	SAME AS D030 31702	1	1	REF						
D155	1A14A2A15MP6	BUSHING, BRAKE 17774	SAME AS D031 31704	1	1	REF						

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO.

P-5114B

CONTRACTOR
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE												
34576-2												
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S P E C I F I C A T I O N	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM OVHL QTY./ ON	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS			
13	14	15	16	17	18	19	20	21	22			
D156	1A14A2A15MP7	PLATE,MTR MTG 17774		SAME AS D033 32718-99	1	1	REF					
D157	1A14A2A15MP8	SPACER,BRAKE BND 17774		SAME AS D034 32886	1	1	REF					
D158	1A14A2A15MP9	NUT,BRAKE ADJ 17774		SAME AS D035 32887	1	1	REF					
D159	1A14A2A15MP10	GUIDE,BRAKE 17774		32916-98	1	1	1					
D160	1A14A2A15MP11	ARM,ACTUATING 17774		33099-98	1	1	1					
D161	1A14A2A15MP12	PLATE,REEL MTR 17774		SAME AS D043 34449	1	1	REF					
D162	1A14A2A15MP13	PLATE,ADAPTER 17774		SAME AS D047 34610	1	1	REF					
D163	1A14A2A15MP14	DRUM,REEL BRKE 17774		SAME AS D048 34611	1	1	REF					
D164	1A14A2A15MP15	MTG KIT,XSTR 16758		SAME AS D050 7274475	1	1	REF					
D165	1A14A2A15MP16	MTG KIT,XSTR 16758		SAME AS D051 7274633	1	1	REF					
D166	1A14A2A15MP17	SPACER 06540		SAME AS D052 8224A0440-17	3	3	REF					
D167	1A14A2A15MP18	SPACER 06540		SAME AS D053 8236A0440-17	4	4	REF					
CONTRACT NUMBER			NOMENCLATURE		PORTABLE RECORDER/REPRODUCER			MODEL/TYPE NO.		P-5114B		
CONTRACTOR			WINSTON RESEARCH CORP.		DATE OF LIST			1 AUGUST 1966		REVISION		
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CONTRACT NUMBER	NOMENCLATURE	MODEL/TYPE NO.
CONTRACTOR	DATE OF LIST	REVISION
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34576-2													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS			
											1 S H E E T	9 C E N T S	10 D O L L A R S
1	3	4	5	6	7	8	9	10	11	12			
SMR CODE	STOCK NUMBER	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	REC'D MANT. QTY./ FACTOR	REC'D QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS					
13	14	15	17	18	19	20	21	22					
D180	1A14A2A15TS2	TERMINAL STRIP 71785	SAME AS D066 353-18-07-001	1	1	REF							
CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B													
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION PAGE 167 OF 193													

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34568

1 ITEM OR SEQUENCE NUMBER	2 I N D E X	3 REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	4 ITEM NAME	5 PRIME CONTRACTOR'S PART NUMBER	6 QTY. PER ASSY.	7 QTY. PER COMP.	8 QTY. PER AR- TICLE	9 S H E E T	10 TOTAL REC'D/ ORDERED	11 UNIT PRICE Dollars	12 EXTENDED UNIT PRICE Dollars	REMARKS
13 SMR CODE	14 STOCK NUMBER	15 ITEM AND LOT NO.	16 FEDERAL MFR CODE	17 MANUFACTURER'S PART NUMBER	18 RECOM. MAINT. QTY./ FACTOR	19 RECOM. QTY./ FACTOR	20 USA- BLE ON CODE	21 OPTIONAL	22 SPARES ALLOCATIONS	23 UNIT PRICE Dollars	24 Cents	25 REMARKS
D206	1A14A2A15A1	AMPLIFIER	17774	34568	1	1	1					
D207	1A14A2A15A1C1	CAPACITOR	81349	SAME AS D093 CS13BD226K	1	1	REF					
D208	1A14A2A15A1CR1	SEMICONDUCTOR	80131	SAME AS D094 1N4370A	1	1	REF					
D209	1A14A2A15A1CR2	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	10	REF					
D210	1A14A2A15A1CR3	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D211	1A14A2A15A1CR4	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D212	1A14A2A15A1CR5	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D213	1A14A2A15A1CR6	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D214	1A14A2A15A1CR7	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D215	1A14A2A15A1CR8	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D216	1A14A2A15A1CR9	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					
D217	1A14A2A15A1CR10	SEMICONDUCTOR	80131	SAME AS A055 1N457A	1	REF	REF					

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34568													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SWR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	REC'D MAINT. QTY./ FACTOR	REC'D OVL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	21	22		
D218	1A14A2A15A1CR11	SEMICONDUCTOR 80131		SAME AS A055 1N457A	1	REF	REF						
D219	1A14A2A15A1K1	RELAY 71482		4156-927 HF1201D00	1	3	REF						
D220	1A14A2A15A1K2	RELAY 71482		SAME AS D105 HF1201D00	1	REF	REF						
D221	1A14A2A15A1K3	RELAY 71482		SAME AS D105 HF1201D00	1	REF	REF						
D222	1A14A2A15A1MP1	CONNECTOR 13550		SAME AS D108 SM20SFSL	1	1	REF						
D223	1A14A2A15A1MP2	MTG PAD 19080		SAME AS A065 RCT018100-1	1	1	REF						
D224	1A14A2A15A1MP3	PRINTED CKT BD 17774		SAME AS D110 32914	1	1	REF						
D225	1A14A2A15A1Q1	TRANSISTOR 80131		SAME AS C725 2N3136	1	1	REF						
D226	1A14A2A15A1R1	RESISTOR 81349		SAME AS A402 RC07GF331J	1	1	REF						
D227	1A14A2A15A1R2	RESISTOR 81349		SAME AS A108 RC07GF822J	1	1	REF						
D228	1A14A2A15A1R3	RESISTOR 81349		SAME AS A086 RC07GF242J	1	1	REF						
D229	1A14A2A15A1R4	RESISTOR 81349		SAME AS D115 RC07GF510J	1	1	REF						
CONTRACT NUMBER													
NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B					
DATE OF LIST				1 AUGUST 1966				REVISION					
CONTRACTOR				WINSTON RESEARCH CORP.				PAGE 169 OF 193					

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34582													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
D258	1A14A2A16	AMPLIFIER ASSY 17774	FEDERAL MFR CODE 16	34582	1	1	1	21	OPTIONAL	22			
D259	1A14A2A16E19	TERMINAL, INSUL 88245		4207-913 1472B	1	14	14						
D260	1A14A2A16E20	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D261	1A14A2A16E21	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D262	1A14A2A16E22	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D263	1A14A2A16E23	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D264	1A14A2A16E24	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D265	1A14A2A16E25	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D266	1A14A2A16E26	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D267	1A14A2A16E27	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D268	1A14A2A16E28	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						
D269	1A14A2A16E29	TERMINAL, INSUL 88245		SAME AS D259 1472B	1	REF	REF						

CONTRACT NUMBER

CONTRACTOR WINSTON RESEARCH CORP.

NOMENCLATURE

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CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34582														
ITEM OR SEQUENCE NUMBER	I N D E N T	REFERENCE SYMBOL NO.	ITEM NAME		PRIME CONTRACTORS		QTY PER ASSY.	QTY PER COMP.	QTY PER END ITEM	S L H I E F L E F	TOTAL RECM/LE ORDERED	UNIT PRICE		EXTENDED UNIT PRICE
					PART NUMBER	LONG PART NUMBER CODE						DOLLARS	CTS	
SMR CODE	13	FEDERAL STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURERS		RECM MAINT QTY/FACT	RECM OVHL QTY/FACT	USABLE ON CODE	UNIT PACK	UNIT OF ISSUE	SPARES ALLOCATIONS		REMARKS
					PART NUMBER	LONG PART NUMBER CODE						DOLLARS	CTS	
D282		1A14A2A16MP5	HEAT SINK	17774	34738		1	1	1					
D283		1A14A2A16MP6	MTG KIT, TRNSTR	16758	SAME AS D050 7274475		1	1	REF					
D284		1A14A2A16Q6	TRANSISTOR	05277	4226-946 164-04		1	1	1					
D285		1A14A2A16Q8	TRANSISTOR	05277	SAME AS C102 154-04		1	1	REF					
D286		1A14A2A16Q9	TRANSISTOR	05277	SAME AS D284 164-04		1	1	REF					
														INCLUDE D282 WHEN ORDERING D284 ONLY
CONTRACT NUMBER														
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 25 April 1967 REVISION A NOMENCLATURE/PORTABLE RECORDER/REPRODUCER/MODEL/TYPER NO. P-5114B														
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34697													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	TOTAL RECN/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
									Dollars	Cents	Dollars	Cents	
1	3	15	4	5	6	7	8	9	10	11	12	13	
13	14	15	16	17	18	19	20	21	SPARES ALLOCATIONS		22		
SWR CODE	STOCK NUMBER	FEDERAL MFR CODE	AMPLIFIER, SERVO	MANUFACTURER'S PART NUMBER	RECN. MAINT. FACTOR	QTY. ON FACTOR	USA- BLE ON CODE	OPTIONAL					
D312	1A14A2A16A1		17774	34697	1	1	1						
D313	1A14A2A16A1C1		CAPACITOR	SAME AS C667 CS13BF106K	1	1	REF						
D314	1A14A2A16A1C2		CAPACITOR	4018-462 217A1C473K2	1	2	2						
D315	1A14A2A16A1C3		CAPACITOR	SAME AS D314 217A1C473K2	1	REF	REF						
D316	1A14A2A16A1C4		CAPACITOR	4034-961 62F306G2	1	2	2						
D317	1A14A2A16A1C5		CAPACITOR	4034-961 62F306G2	1	REF	REF						
D318	1A14A2A16A1CR1		SEMICONDUCTOR	SAME AS A163 1N3277	1	13	REF						
D319	1A14A2A16A1CR2		SEMICONDUCTOR	SAME AS A163 1N3277	1	REF	REF						
D320	1A14A2A16A1CR3		SEMICONDUCTOR	SAME AS A163 1N3277	1	REF	REF						
D321	1A14A2A16A1CR4		SEMICONDUCTOR	SAME AS A163 1N3277	1	REF	REF						
D322	1A14A2A16A1CR5		SEMICONDUCTOR	SAME AS A163 1N3277	1	REF	REF						
D323	1A14A2A16A1CR6		SEMICONDUCTOR	SAME AS A163 1N3277	1	REF	REF						
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST 1 AUGUST 1966				REVISION				PAGE 174 OF 193	

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34697													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE						Dollars	Cents	Dollars	Cents	
D324	1A14A2A16A1CR7	SEMICONDUCTOR 80131	MANUFACTURER'S PART NUMBER 17	1	REF	REF	REF	OPTIONAL	21	22	SPARES ALLOCATIONS		
D325	1A14A2A16A1CR8	SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF	REF						
D326	1A14A2A16A1CR9	SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF	REF						
D327	1A14A2A16A1CR10	SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF	REF						
D328	1A14A2A16A1CR11	SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF	REF						
D329	1A14A2A16A1CR12	SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF	REF						
D330	1A14A2A16A1CR13	SEMICONDUCTOR 80131	SAME AS A163 IN3277	1	REF	REF	REF						
D331	1A14A2A16A1MP1	INSULATOR, XSTR 19080	SAME AS A065 RCT018100-1	1	1	REF	REF						
D332	1A14A2A16A1MP2	PRINTED WIRE BD 17774	34905-99	1	1	1	1						
D333	1A14A2A16A1Q1	TRANSISTOR 80131	SAME AS C377 2N3566	1	5	REF	REF						
D334	1A14A2A16A1Q2	TRANSISTOR 80131	4224-920 2N3789	1	3	3	3						
D335	1A14A2A16A1Q3	TRANSISTOR 80131	SAME AS D334 2N3789	1	REF	REF	REF						

CONTRACT NUMBER
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NOMENCLATURE
 PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO.
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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34697														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	FEDERAL MFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS	
									Dollars	Cents	Dollars	Cents		
1	3	15	16	5	6	7	8	10	Dollars	Cents	Dollars	Cents		
SMR CODE	STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS					
13	14			17	18	19	20	21	22					
D348	1A14A2A16AIR6	RESISTOR	81349	SAME AS C730 RC07GF512J	1	REF	REF							
D349	1A14A2A16AIR7	RESISTOR	81349	SAME AS C737 RC07GF124J	1	4	REF							
D350	1A14A2A16AIR8	RESISTOR	81349	SAME AS C737 RC07GF124J	1	REF	REF							
D351	1A14A2A16AIR9	RESISTOR	81349	SAME AS A563 RC07GF472J	1	2	REF							
D352	1A14A2A16AIR10	RESISTOR	81349	SAME AS C737 RC07GF124J	1	REF	REF							
D353	1A14A2A16AIR11	RESISTOR	81349	SAME AS C737 RC07GF124J	1	REF	REF							
D354	1A14A2A16AIR12	RESISTOR	81349	SAME AS A563 RC07GF472J	1	REF	REF							

CONTRACT NUMBER

NOMENCLATURE

PORTABLE RECORDER/REPRODUCER

MODEL/TYPE NO. P-5114B

CONTRACTOR WINSTON RESEARCH CORP.

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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34440

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	SH E E T	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
1	2	ITEM AND LOT NO.	FEDERAL MFR CODE	3	4	5	6	7	8	Dollars	Cents	Dollars	Cents	
SMR CODE	STOCK NUMBER	15	16	17	RECM MAINT QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL		SPARES ALLOCATIONS				22
13	14				18	19	20	21						
D380	1A14A2A17	HUB ASSY	17774	34440	2	3	2							
D381	1A14A2A17MP1	SPRING	05341	4816-945 BS33	24	48	48							
D382	1A14A2A17MP2	PIN, DOWEL	00141	4544-944 D9-500	8	16	16							
D383	1A14A2A17MP3	HUB, INNER	17774	34441	2	4	4							
D384	1A14A2A17MP4	HUB, FLANGED	17774	34442	2	4	4							
D385	1A14A2A17MP5	KNOB REEL HUB	17774	34445	2	4	4							
D386	1A14A2A17MP6	GASKET, REEL	17774	34446	2	4	4							
D387	1A14A2A17MP7	RING, EXPANSION	17774	34521	2	4	4							
D388	1A14A2A17MP8	SCREW, STOP	17774	34868	2	4	4							
D389	1A14A2A17MP9	SCREW, SHOULDER	00141	4788-956 4529	6	12	12							

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34559														
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	S I T E S	TOTAL RECN/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
		ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	Dollars	Cents	Dollars	Cents	
SMR CODE	STOCK NUMBER	15	16	17	RECN. MAINT. FACTOR	RECN. QTY./ ON	USA- BLE CODE	OPTIONAL	SPARES ALLOCATIONS					
13	14				18	19	20	21	22					
D415	1A14A2A18	WIRE LIST	17774	34559	1	1	1							
D416	1A14A2A18MP1	CONTACT,ELEC	81312	4207-924 100-1016S	34	34	34							
D417	1A14A2A18MP2	CONTACT,ELEC	81312	4207-923 100-1020S	34	34	34							
D418	1A14A2A18MP3	CONTACT,ELEC	81312	4207-925 100-2020S	120	120	120							
D419	1A14A2A18MP4	PIN,CONNECTOR	00779	4207-921 42574-3	120	120	120							
D420	1A14A2A18MP5	PIN,CONNECTOR	00779	4207-920 42575-3	60	60	60							
D421	1A14A2A18MP6	PIN,CONNECTOR	00779	4207-919 42637-3	60	60	60							
D422	1A14A2A18P201	CONNECTOR	81312	4070-905 MRAC20SJTC6H	1	1	2							
D423	1A14A2A18P301	CONNECTOR	81312	4070-903 MRAC14SJTC6H	1	3	3							
D424	1A14A2A18P401	CONNECTOR	81312	4070-894 SREC34SJTC13	1	1	1							
D425	1A14A2A18P503	CONNECTOR	81312	4070-896 MRAC26SJTC6H	1	1	1							
D426	1A14A2A18P701	CONNECTOR	81312	SAME AS D422 MRAC20SJTC6H	1	1	REF							
CONTRACT NUMBER				NOMENCLATURE	PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO.		P-5114B			
CONTRACTOR WINSTON RESEARCH CORP.				DATE OF LIST	1 AUGUST 1966				REVISION		PAGE 179 OF 193			

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34559

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
1	2	3	4	5	6	7	8	9	10	11
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. FACTORY	RECM. QTY. 18	RECM. QTY. 19	USA- BLE ON CODE 20	OPTIONAL	SPARES ALLOCATIONS
13	14	15	16	17	18	19	20	21	22	
D427	1A14A2A18P801	CONNECTOR 81312	4070-892 MRAC18SJTC6HI	1	2	2				
D428	1A14A2A18P901	CONNECTOR 81312	SAME AS D427 MRAC18SJTC6HI	1	REF	REF				
D429	1A14A2A18P1101	CONNECTOR 81312	SAME AS D423 MRAC14SJTC6H	1	REF	REF				
D430	1A14A2A18P1201	CONNECTOR 81312	SAME AS D423 MRAC14SJTC6H	1	REF	REF				
D431	1A14A2A18P1301	CONNECTOR 95238	4074-870 MM14-22SGDB	1	2	2				
D432	1A14A2A18P1401	CONNECTOR 95238	4074-870 MM14-22SGDB	1	REF	REF				
D433	1A14A2A18S2	SWITCH, TOGGLE *****	SAME AS B591 DP7	1	1	REF				
D434	1A14A2A18TS1	TERMINAL BLOCK 00779	SAME AS B715 581342-3	1	1	REF				
D435	1A14A2A18TS2	TERMINAL BLOCK 00779	SAME AS B716 581177-3	1	1	REF				
										TORREAL

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34669														
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	UNIT PRICE 11		EXTENDED UNIT PRICE 12	REMARKS
SMR CODE	13		STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TICLE	TOTAL REC'D/ ORDERED	Dollars	Cents	Dollars	
SPARES ALLOCATIONS														
22														
D461			1A14A2A18A1	FILTER ASSY 17774		34669	1	1	1	21				
D462			1A14A2A18A1C1	CAPACITOR 72982		4034-749 1201-052	1	31	31					
D463			1A14A2A18A1C2	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D464			1A14A2A18A1C3	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D465			1A14A2A18A1C4	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D466			1A14A2A18A1C5	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D467			1A14A2A18A1C6	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D468			1A14A2A18A1C7	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D469			1A14A2A18A1C8	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D470			1A14A2A18A1C9	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D471			1A14A2A18A1C10	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
D472			1A14A2A18A1C11	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF					
CONTRACT NUMBER														
NOMENCLATURE														
PORTABLE RECORDER/REPRODUCER														
MODEL/TYPE NO.														
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34669

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. AR- TICLE	QTY. S P E C I F I C	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars Cents	EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. MAINT. QTY./ FACTOR	RECM. OVHL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS		
13	14	15	16	17	18	19	20	21	22		
D473	1A14A2A18A1C12	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D474	1A14A2A18A1C13	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D475	1A14A2A18A1C14	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D476	1A14A2A18A1C15	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D477	1A14A2A18A1C16	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D478	1A14A2A18A1C17	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D479	1A14A2A18A1C18	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D480	1A14A2A18A1C19	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D481	1A14A2A18A1C20	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D482	1A14A2A18A1C21	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D483	1A14A2A18A1C22	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				
D484	1A14A2A18A1C23	CAPACITOR 72982		SAME AS D462 1201-052	1	REF	REF				

CONTRACT NUMBER CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34669													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	TOTAL RECM/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SHR CODE	STOCK NUMBER	15	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS				
13	14	15	16	17	18	19	20	21	22				
D485	1A14A2A18A1C24	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D486	1A14A2A18A1C25	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D487	1A14A2A18A1C26	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D488	1A14A2A18A1C27	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D489	1A14A2A18A1C28	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D490	1A14A2A18A1C29	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D491	1A14A2A18A1C30	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D492	1A14A2A18A1C31	CAPACITOR	72982	SAME AS D462 1201-052	1	REF	REF						
D493	1A14A2A18A1E32	TERMINAL, INSUL	88245	SAME AS C804 1434	1	2	REF						
D494	1A14A2A18A1E33	TERMINAL, INSUL	88245	SAME AS C804 1434	1	REF	REF						
D495	1A14A2A18A1F1	FUSE, CARTRIDGE	75915	4108-939 313004	1	4	4						
D496	1A14A2A18A1F2	FUSE, CARTRIDGE	75915	SAME AS D495 313004	1	REF	REF						
CONTRACT NUMBER				NOMENCLATURE				PORTABLE RECORDER/REPRODUCER				MODEL/TYPE NO. P-5114B	
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE 34669

ITEM OR SEQUENCE NUMBER	INDEX	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	SHEET OF	TOTAL RECM/ ORDERED	UNIT PRICE		EXTENDED UNIT PRICE		REMARKS
			ITEM AND LOT NO.	FEDERAL MFR CODE							Dollars	Cents	Dollars	Cents	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
SMR CODE		STOCK NUMBER			MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM OVHL QTY./ ON	USA- BLE CODE	OPTIONAL		SPARES ALLOCATIONS				
13		14	15	16	17	18	19	20	21	22					
D497		1A14A2A18A1MP1	WASHER	95987	4816-972 D4-167	2	2	4							
D498		1A14A2A18A1MP2	CLAMP, CABLE	95987	SAME AS C800 1-2-4NA	2	2	REF							
D499		1A14A2A18A1MP3	SHIELD GASKET	12881	4484-946 11-160X10INLG	1	1	1							
D500		1A14A2A18A1MP4	SHIELD, POWER	17774	34665	1	1	1							
D501		1A14A2A18A1MP5	CHASSIS, POWER	17774	34847	1	1	1							
D502		1A14A2A18A1R1	RESISTOR	91637	4169-156 RH25-1R5H	1	1	1							
D503		1A14A2A18A1S1	SWITCH, TOGGLE	15605	4186-957 7565K5	1	1	1							
D504		1A14A2A18A1XF1	FUSEHOLDER	75915	4108-949 342014	1	4	4							
D505		1A14A2A18A1XF1	FUSEHOLDER	75915	SAME AS D504 342014	1	REF	REF							
D506		1A14A2A18A1XF1	FUSEHOLDER	75915	SAME AS D504 342014	1	REF	REF							
D507		1A14A2A18A1XF1	FUSEHOLDER	75915	SAME AS D504 342014	1	REF	REF							
D508		1A14A2A18A1F3	FUSE, CARTRIDGE	75915	SAME AS D495 313004	1	REF	REF							

CONTRACT NUMBER

NOMENCLATURE

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34669													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME		PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER TITLE	QTY. PER UNIT	TOTAL RECM/ ORDERED	UNIT PRICE	EXTENDED UNIT PRICE	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM. QTY./ FACTOR	RECM. QTY./ COMP.	RECM. QTY./ ON CODE	SPARE ALLOCATIONS	OPTIONAL	Dollars	Cents	Dollars	Cents
D509	1A14A2A18A1F4	FUSE, CARTRIDGE	75915	SAME AS D495 313004	1	REF	REF	22					
D510	1A14A2A18A1FL1	FILTER, RF	07294	4106-951 GF4200-9	1	2	2						
D511	1A14A2A18A1FL2	FILTER, RF	07294	SAME AS D510 GF4200-9	1	REF	REF						
D512	1A14A2A18A1J101	CONNECTOR	71468	4060-974 MS3102A10SL3P	1	1	1						
D513	1A14A2A18A1J102	CONNECTOR	71468	4060-972 MS3102A28-2IS	1	1	1						
D514	1A14A2A18A1J103	CONNECTOR	71468	4060-973 MS3102A14S2S	1	1	1						
D515	1A14A2A18A1L1	COIL, RF	99800	4046-975 1537-94	1	1	1						
D516	1A14A2A18A1MP1	WASHER	95987	SAME AS D497 D4-167	2	2	REF						

CONTRACT NUMBER
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34701

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER AR- TICLE	8	TOTAL REC'D/ ORDERED	9	UNIT PRICE 11	10	EXTENDED UNIT PRICE 12	REMARKS
SMR CODE	13		STOCK NUMBER	14	ITEM AND LOT NO.	15	FEDERAL MFR CODE	16	RECM MAINT. QTY./ FACTOR	17	RECM QTY./ FACTOR	18	USA- BLE ON CODE	19	OPTIONAL	20	Dollars	Cents	Dollars	Cents
D542			1A14A2A18A2		CABLE ASSY	17774			1	1	1	1	1	1	21					
D543			1A14A2A18A2P1		CONNECTOR	98278			1	2	2	2	2	2						
D544			1A14A2A18A2P2		CONNECTOR	98278			1	REF	REF	REF	REF	REF						

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34495													
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	TOTAL RECM/ ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SMR CODE	STOCK NUMBER	ITEM AND LOT NO.	FEDERAL MFR CODE	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM DVHL. QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS	Dollars	Cents	Dollars	Cents
D570	1A14A2A18A3	PLATE ASSY 17774	34495	1	1	1	1	21	22				
D571	1A14A2A18A3MP1	PLATE, MTG 17774	34628	1	1	1	1						
D572	1A14A2A18A3P501	CONNECTOR 91662	4074-869 00-7008-035-163-002	1	2	2	2						
D573	1A14A2A18A3P502	CONNECTOR 91662	SAME AS D572 00-7008-035-163-002	1	REF	REF	REF						
D574	1A14A2A18A3P601	CONNECTOR 91662	4074-863 00-7008-017-163-002	1	3	3	3						
D575	1A14A2A18A3P602	CONNECTOR 91662	4074-863 00-7008-017-163-002	1	REF	REF	REF						
D576	1A14A2A18A3P603	CONNECTOR 91662	4074-863 00-7008-017-163-002	1	REF	REF	REF						
D577	1A14A2A18A3R601	RESISTOR 91637	4174-917 RH5-360H	1	1	1	1						
D578	1A14A2A18A3R602	RESISTOR 91637	4168-891 RH5-600H	1	1	1	1						
CONTRACT NUMBER													
CONTRACTOR WINSTON RESEARCH CORP.													
DATE OF LIST 1 AUGUST 1966													
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NOMENCLATURE PORTABLE RECORDER/REPRODUCER													
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SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34703-1

ITEM OR SEQUENCE NUMBER	1	2	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	3	ITEM NAME	4	PRIME CONTRACTOR'S PART NUMBER	5	QTY. PER ASSY.	6	QTY. PER COMP.	7	QTY. PER TICLE	8	9	10	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS
					ITEM AND LOT NO.	FEDERAL MFR CODE											Dollars	Cents	
SMR CODE	13		STOCK NUMBER	14			MANUFACTURER'S PART NUMBER	17	REC'D QTY./ FACTOR	18	REC'D QTY./ FACTOR	19	USA- BLE ON CODE	20	OPTIONAL	21	SPARES ALLOCATIONS		22
D604			1A14A2A19-A		CABLE ASSY	17774	34703-1		1	1	1	1	1						
D605			1A14A2A19-AP1		CONNECTOR	98278	SAME AS B964 080-0001		1	7	REF								
D606			1A14A2A19-AP2		CONNECTOR	98278	SAME AS B964 080-0001		1	REF	REF								
D607			1A14A2A19-AP3		CONNECTOR	98278	SAME AS B964 080-0001		1	REF	REF								
D608			1A14A2A19-AP4		CONNECTOR	98278	SAME AS B964 080-0001		1	REF	REF								
D609			1A14A2A19-AP5		CONNECTOR	98278	SAME AS B964 080-0001		1	REF	REF								
D610			1A14A2A19-AP6		CONNECTOR	98278	SAME AS B964 080-0001		1	REF	REF								
D611			1A14A2A19-AP7		CONNECTOR	98278	SAME AS B964 080-0001		1	REF	REF								
D612			1A14A2A19-AP8		CONNECTOR	98278	4054-975 A43AP1CS		1	1	2								

SYMBOL NO. PREFIX OR
UNIT NOMENCLATURE

34641

ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM AND LOT NO.	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR- TICLE	S H E E T	TOTAL REC'D/ ORDERED	UNIT PRICE 11 Dollars	EXTENDED UNIT PRICE 12 Dollars	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	
SHR CODE	STOCK NUMBER	15	FEDERAL MFR CODE 16	MANUFACTURER'S PART NUMBER	RECM MAINT. QTY./ FACTOR	RECM QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS			
13	14	15	16	17	18	19	20	21	22			
D672	1A14A2A20	SWITCH ASSY	17774	34641	1	1	1					
D673	1A14A2A20C1	CAPACITOR	24446	SAME AS B420 62F403G2	1	1	REF					
D674	1A14A2A20CR1	SEMICONDUCTOR	80131	SAME AS A163 1N3277	1	1	REF					
D675	1A14A2A20E1A-B	TERMINAL	88245	SAME AS C804 1434	1	2	REF					
D676	1A14A2A20E24-B	TERMINAL	88245	SAME AS C804 1434	1	REF	REF					
D677	1A14A2A20J1	CONNECTOR	81312	4074-855 MRE26PJ6	1	1	1					
D678	1A14A2A20K1	RELAY	02289	SAME AS B429 2T1C126	1	1	REF					
D679	1A14A2A20MP1	BRACKET, SWITCH	17774	34642	1	1	1					
D680	1A14A2A20S1	SWITCH, ROTARY	81840	4184-959 170502-001	1	1	1					

CONTRACT NUMBER MODEL/TYPE NO. P-5114B

PORTABLE RECORDER/REPRODUCER

NOMENCLATURE

CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION

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SYMBOL NO. PREFIX OR UNIT NOMENCLATURE														
34578-1														
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	UNIT PRICE 11 Dollars Cents		EXTENDED UNIT PRICE 12 Dollars Cents	REMARKS
SMR CODE	13	14	15	16	17	18	19	20	21	22	SPARES ALLOCATIONS			
D706	1A14A2A21-A	CABLE ASSY	17774	MANUFACTURER'S PART NUMBER	34578-1	1	1	1	OPTIONAL					
D707	1A14A2A21-AP1	CONNECTOR	98278		4054-964 32-55S0S50	1	2	2						
D708	1A14A2A21-AP2	CONNECTOR	98278		SAME AS D707 32-55S0S50	1	REF	REF						
CONTRACT NUMBER CONTRACTOR														
Winston Research Corp. 1 AUGUST 1966 193														

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34578-2													
ITEM OR SEQUENCE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	REMARKS
	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER ARTICLE	TOTAL RECM/ ORDERED	UNIT PRICE Dollars	UNIT PRICE Dollars	EXTENDED UNIT PRICE Dollars			
		ITEM AND LOT NO.	FEDERAL MFR CODE	RECM MAINT. QTY./ FACTOR	RECM OVHL QTY./ FACTOR	USA- BLE ON CODE	OPTIONAL	SPARES ALLOCATIONS					
D734	1A14A2A21-B	CABLE ASSY 17774	34578-2	1	1	1	21						
D735	1A14A2A21-BP1	CONNECTOR 98278	4054-964 32-55S0S50	1	2	2							
D736	1A14A2A21-BP2	CONNECTOR 98278	SAME AS D735 32-55S0S50	1	REF	REF							
CONTRACT NUMBER NOMENCLATURE PORTABLE RECORDER/REPRODUCER MODEL/TYPE NO. P-5114B													
CONTRACTOR WINSTON RESEARCH CORP. DATE OF LIST 1 AUGUST 1966 REVISION PAGE 192 OF 193													

SYMBOL NO. PREFIX OR UNIT NOMENCLATURE 34806											
ITEM OR SEQUENCE NUMBER	REFERENCE SYMBOL NO. (FOR ELECTRONIC ONLY) OPTIONAL FOR OTHER	ITEM NAME	PRIME CONTRACTOR'S PART NUMBER	QTY. PER ASSY.	QTY. PER COMP.	QTY. PER AR-TICLE	TOTAL RECM/ORDERED	UNIT PRICE 11	EXTENDED UNIT PRICE 12	REMARKS	
1	2	4	5	6	7	8	10	Dollars Cents	Dollars Cents		
SMR CODE 13	STOCK NUMBER 14	FEDERAL MFR CODE 16	MANUFACTURER'S PART NUMBER 17	RECM. MAINT. QTY./FACTOR	RECM. OVHL. QTY./FACTOR	USA- BLE ON CODE 20	OPTIONAL 21	SPARES ALLOCATIONS 22			
D762	1A15	TOOL KIT 17774	34806	0	0	0				OPTIONAL	

CONTRACT NUMBER	NOMENCLATURE	PORTABLE RECORDER/REPRODUCER	MODEL/TYPE NO.	P-5114B
CONTRACTOR	WINSTON RESEARCH CORP.	DATE OF LIST	1 AUGUST 1966	REVISION
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MP MASTER



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